RTS RIM Testing Services	Appendices for the Bl Model RAV20CW SA	lackBerry 7130e Wireless AR Report	Handheld	Page 1(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV20	CW

APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 2(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	'20CW

Date/Time: 28/06/2005 9:58:25 AMDate/Time: 28/06/2005 10:14:03 AM

Test Laboratory: RTS

Body_Worn_Leather_Holster_Back_Facing_Phantom_CDMA 800_Mid_ChanAmbient_Temp_24_4_celsius_Liquid_Temp_22_2_celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\varepsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

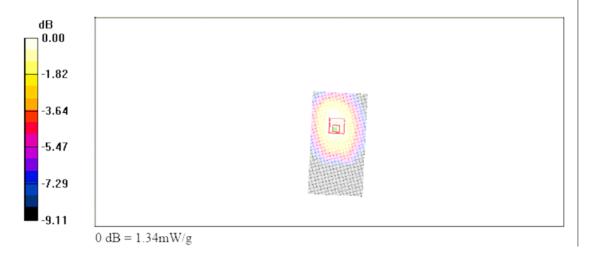
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.30 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 39.0 V/m; Power Drift = -0.222 dB Peak SAR (extrapolated) = 1.72 W/kg SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.883 mW/g

Maximum value of SAR (measured) = 1.34 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 3(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 28/06/2005 6:19:31 PMDate/Time: 28/06/2005 6:35:09 PM

Test Laboratory: RTS

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA 800_Mid_ChanAmbient_Temp_24.7_celsius_Liquid_Temp_22_2_celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

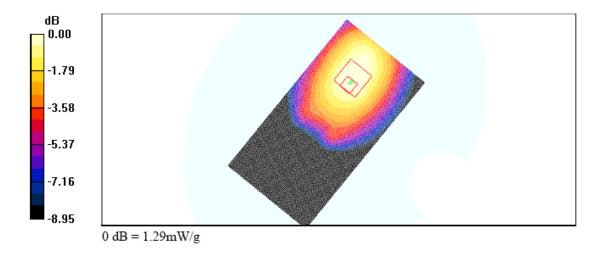
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.31 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 31.8 V/m; Power Drift = -0.117 dB Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.867 mW/gMaximum value of SAR (measured) = 1.29 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 4(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 16/08/2005 5:00:12 PMDate/Time: 16/08/2005 5:16:02 PM

Lab: RIM Testing Services (RTS)

Body_Worn_RedSwivel_Holster_Back_Facing_Phantom_CDMA 800_Mid_Chan_Ambient_Temp_24.0_celsius_Liquid_Temp_22.6_celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.96 \text{ mho/m}$; $\varepsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

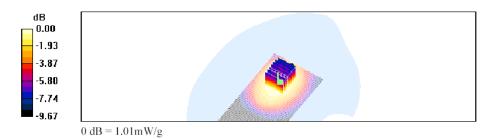
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.02 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 31.6 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 1.24 W/kg SAR(1 g) = 0.939 mW/g; SAR(10 g) = 0.690 mW/g Maximum value of SAR (measured) = 1.01 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 5(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 28/06/2005 4:04:51 PMDate/Time: 28/06/2005 4:20:30 PM

Test Laboratory: RTS

Body_Worn_KeyChain_Holster_Back_Facing_Phantom_CDMA 800 Mid ChanAmbient Temp 24.8 celsius Liquid Temp 22 3 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\varepsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

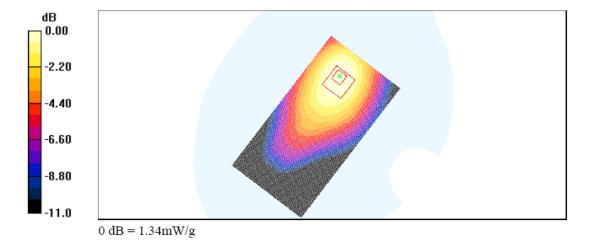
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.32 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 32.2 V/m; Power Drift = 0.043 dB Peak SAR (extrapolated) = 1.76 W/kg SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.894 mW/g

Maximum value of SAR (measured) = 1.34 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 6(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 28/06/2005 7:42:19 PMDate/Time: 28/06/2005 7:58:03 PM

Test Laboratory: RTS

Body_Worn_KeyChain_Holster_Back_Facing_Phantom_CDMA 800_Mid_Chan_batt2_Ambient_Temp_24_6_celsius_Liquid_Temp_22_3_celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

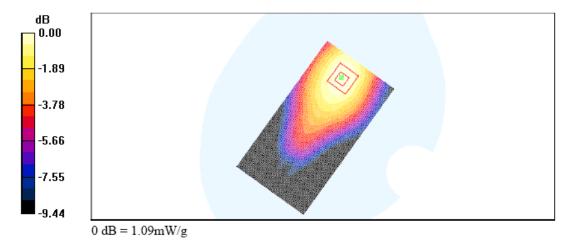
Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.09 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.4 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.741 mW/gMaximum value of SAR (measured) = 1.09 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 7(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	'20CW

Date/Time: 29/06/2005 7:37:52 AMDate/Time: 29/06/2005 7:53:46 AM

Test Laboratory: RTS

Body_Worn_KeyChain_Holster_Back_Facing_Phantom_CDMA 800_Mid_Chan_batt3_Ambient_Temp_22_3_celsius_Liquid_Temp_22_1_celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

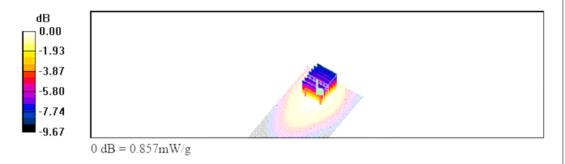
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.853 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 27.2 V/m; Power Drift = 0.118 dB Peak SAR (extrapolated) = 1.02 W/kg SAR(1 g) = 0.806 mW/g; SAR(10 g) = 0.583 mW/g

Maximum value of SAR (measured) = 0.857 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 8(19)
Author Data	Oates of Test Test Report No FCC ID:			
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 29/06/2005 8:23:38 AMDate/Time: 29/06/2005 8:39:25 AM

Test Laboratory: RTS

Body_Worn_KeyChain_Holster_Back_Facing_Phantom_CDMA 800 Mid Chan batt1 Headset Ambient Temp 23 0 celsius Liquid Temp 22 2 cels

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\varepsilon_r = 52.4$; $\rho = 1000$ kg/m³

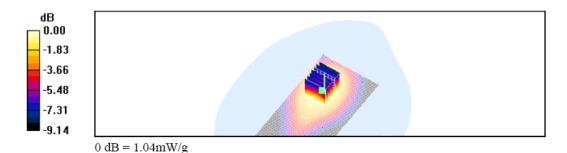
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.01 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 26.9 V/m; Power Drift = -0.042 dB Peak SAR (extrapolated) = 1.26 W/kg SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.691 mW/g Maximum value of SAR (measured) = 1.04 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 9(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	'20CW

Date/Time: 29/06/2005 2:19:25 PMDate/Time: 29/06/2005 2:35:07 PM

Test Laboratory: RTS

Body_Worn_KeyChain_Holster_Back_Facing_Phantom_CDMA 800_Mid_Chan_batt1_BT ON Headset Ambient Temp 23 8 celsius Liquid Temp 22 4 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M 835 Medium parameters used: f = 836.52 MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

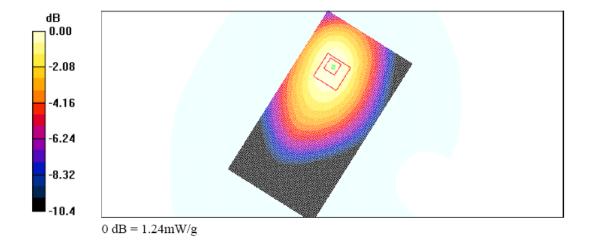
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.23 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 28.2 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 1.62 W/kg SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.833 mW/g Maximum value of SAR (measured) = 1.24 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 10(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 30/06/2005 10:39:17 AMDate/Time: 30/06/2005 10:56:45 AM

Test Laboratory: RTS

Body_Worn_Leather_Holster_Back_Facing_Phantom_CDMA
1900 Low ChanAmbient Temp 24 8 celsius Liquid Temp 22 4 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium: M1900 Medium parameters used: f = 1851.25 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

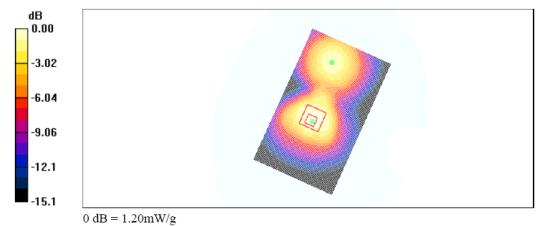
- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.24 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 25.8 V/m; Power Drift = 0.202 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.714 mW/gMaximum value of SAR (measured) = 1.20 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 11(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 26/08/2005 11:23:08 AMDate/Time: 26/08/2005 11:40:26 AM

Lab: RIM Testing Services (RTS)

Body_Worn_RedLeatherSwivelHolster_Back_Facing_Phantom_CDMA 1900_Mid_ChanAmbient_Temp_23_1_celsius_Liquid_Temp_22_3_celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

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

Medium: M1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.56 \text{ mho/m}$; $\varepsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

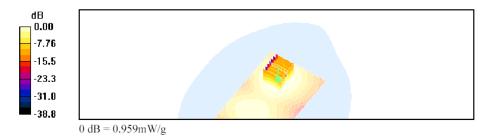
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.921 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.0 V/m; Power Drift = -19.1 dB Peak SAR (extrapolated) = 2.47 W/kg SAP(10 c) = 0.500 mW/g

SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.590 mW/gMaximum value of SAR (measured) = 0.959 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 12(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 30/06/2005 2:36:40 PMDate/Time: 30/06/2005 2:54:07 PM

Lab: RIM Testing Services (RTS)

Body_Worn_KeyChain_Holster_Back_Facing_Phantom_CDMA 1900 Low ChanAmbient Temp 24 8 celsius Liquid Temp 22 5 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f = 1851.25 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

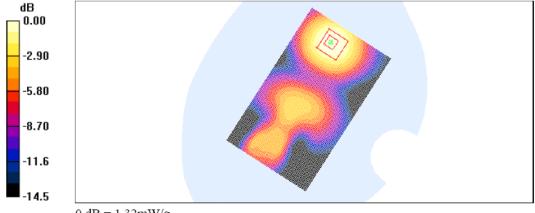
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.33 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 19.4 V/m; Power Drift = 0.181 dB Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.762 mW/gMaximum value of SAR (measured) = 1.32 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 13(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 30/06/2005 4:43:27 PMDate/Time: 30/06/2005 5:00:48 PM

Lab: RIM Testing Services (RTS)

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA 1900 Low ChanAmbient Temp 25 9 celsius Liquid Temp 22 6 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f = 1851.25 MHz; σ = 1.55 mho/m; ϵ_r = 50.7; ρ = 1000

 kg/m^3

Phantom section: Flat Section

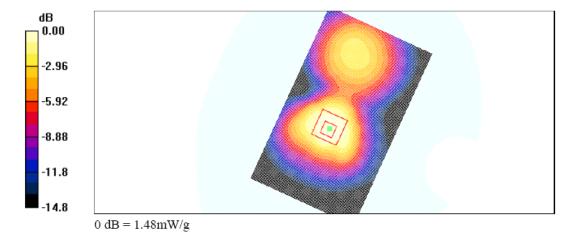
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.50 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 28.4 V/m; Power Drift = 0.026 dB Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.905 mW/gMaximum value of SAR (measured) = 1.48 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 14(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 04/07/2005 9:48:11 AMDate/Time: 04/07/2005 10:06:06 AM

Lab: RIM Testing Services (RTS)

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA
1900 Low Chan batt2 Ambient Temp 24 3 celsius Liquid Temp 22 5 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f = 1851.25 MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

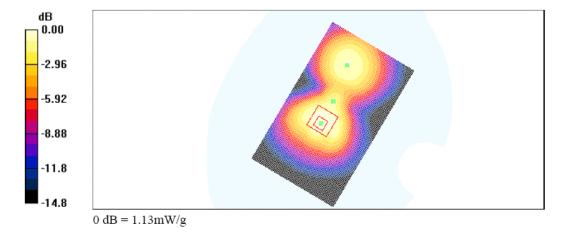
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.14 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 25.3 V/m; Power Drift = 0.124 dB Peak SAR (extrapolated) = 1.27 W/kg SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.670 mW/g

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



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 15(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 04/07/2005 10:31:02 AMDate/Time: 04/07/2005 10:48:28 AM

Lab: RIM Testing Services (RTS)

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA
1900 Low Chan batt3 Ambient Temp_24_1 celsius Liquid Temp_22_5 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f = 1851.25 MHz; σ = 1.55 mho/m; ϵ_r = 50.7; ρ = 1000

kg/m³

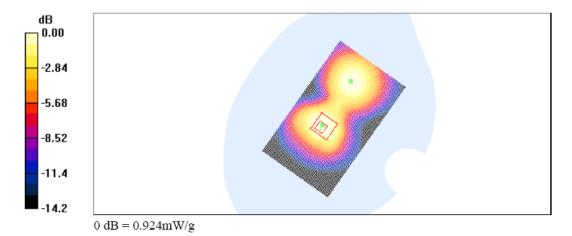
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.897 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 21.9 V/m; Power Drift = 0.088 dB Peak SAR (extrapolated) = 1.06 W/kg SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.557 mW/g Maximum value of SAR (measured) = 0.924 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 16(19)
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Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 04/07/2005 11:11:59 AMDate/Time: 04/07/2005 11:29:12 AM

Lab: RIM Testing Services (RTS)

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA
1900 Low Chan batt4 Ambient Temp 24 4 celsius Liquid Temp 22 6 celsius

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f=1851.25 MHz; $\sigma=1.55$ mho/m; $\epsilon_r=50.7$; $\rho=1000$

 kg/m^3

Phantom section: Flat Section

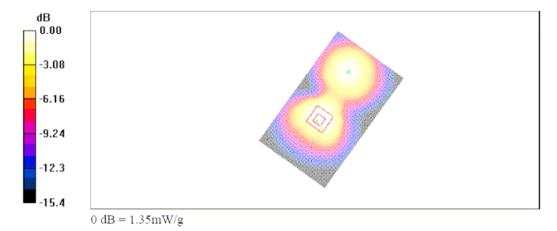
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.33 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 25.8 V/m; Power Drift = 0.030 dB Peak SAR (extrapolated) = 1.59 W/kg SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.805 mW/g

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



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 17(19)
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Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 04/07/2005 11:53:08 AMDate/Time: 04/07/2005 12:10:33 PM

Lab: RIM Testing Services (RTS)

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA
1900 Low Chan batt1 headset Ambient Temp 24 0 celsius Liquid Temp 22 5 cel

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f = 1851.25 MHz; σ = 1.55 mho/m; ϵ_r = 50.7; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY4 Configuration:

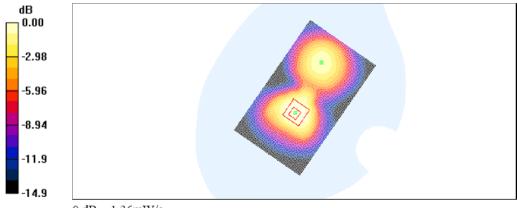
- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.34 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 24.8 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.835 mW/gMaximum value of SAR (measured) = 1.36 mW/g



0 dB = 1.36 mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Date/Time: 04/07/2005 2:21:44 PMDate/Time: 04/07/2005 2:39:09 PM

Lab: RIM Testing Services (RTS)

Body_Worn_Fabric_Holster_Back_Facing_Phantom_CDMA
1900 Low Chan batt1 BlueTooth Ambient Temp 24 1 celsius Liquid Temp 22 3

DUT: BlackBerry Wireless Handheld; Type: Sample

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: M1900 Medium parameters used: f=1851.25 MHz; $\sigma=1.55$ mho/m; $\epsilon_r=50.7$; $\rho=1000$

kg/m³

Phantom section: Flat Section

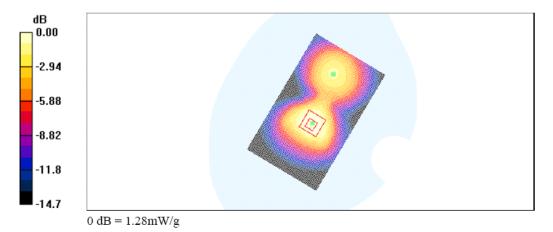
DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (91x151x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.24 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 26.1 V/m; Power Drift = 0.063 dB Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.765 mW/gMaximum value of SAR (measured) = 1.28 mW/g



RTS RIM Testing Services	Appendices for the B Handheld Model RA	lackBerry 7130e Wireless V20CW SAR Report		Page 19(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Lauren Weber	June 20 – July 04, 2005	RTS-0181-0507-02 rev. 01	L6ARAV	20CW

Z-axis plots for worst-case body worn configuration:

