RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page 1(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>2(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 25/07/2008 6:20:34 PM

Test Laboratory: RTS

File Name: RightHandSide EDGE850 mid chan amb temp 23.1 lig temp 22.1C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2

Medium parameters used (interpolated): f = 836.8 MHz; s = 0.859 mho/m; q = 42.3; density =

 $1000 \text{ kg/m}^3$ 

Phantom section: Right Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.671 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 8.45 V/m; Power Drift = -0.010 dB

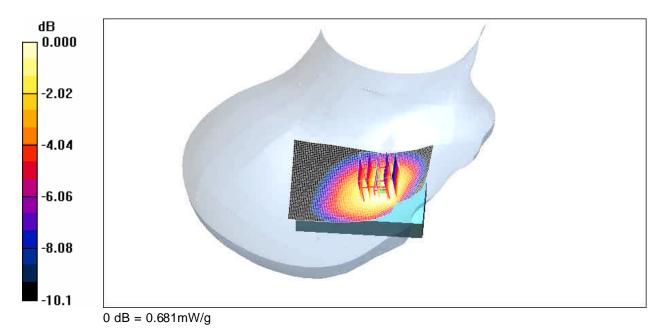
Peak SAR (extrapolated) = 0.771 W/kg

SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.464 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.681 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	serry® Smartphone Model RB	Z41GW	Page <b>3(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the BlackE SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>4(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 25/07/2008 6:50:42 PM

Test Laboratory: RTS

File Name: RightHandSide\_Tilt\_EDGE850\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2

Medium parameters used (interpolated): f = 836.8 MHz; s = 0.859 mho/m; e = 42.3; density =

1000 kg/m<sup>3</sup>

Phantom section: Right Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.435 mW/g

Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 20.9 V/m; Power Drift = 0.165 dB

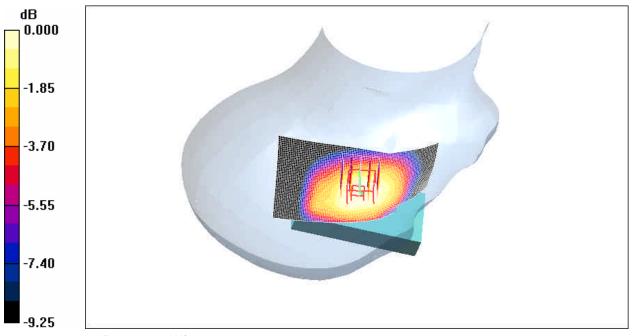
Peak SAR (extrapolated) = 0.487 W/kg

SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.315 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.426 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>5(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



0 dB = 0.426 mW/g

RTS RIM Testing Services	Appendix for the BlackI SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>6(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 25/07/2008 7:13:31 PM

Test Laboratory: RTS

File Name: RightHandSide\_GSM850\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.3C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 836.8 MHz; s = 0.859 mho/m; e = 42.3; density =

1000 kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.711 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 8.23 V/m; Power Drift = 0.001 dB

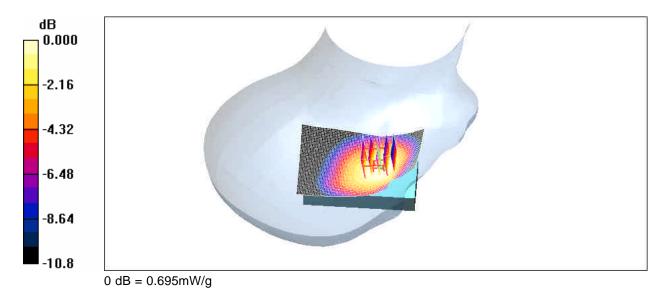
Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.647 mW/g; SAR(10 g) = 0.472 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.695 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>7(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the BlackE SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>8(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 25/07/2008 7:55:34 PM

Test Laboratory: RTS

File Name: LeftHandSide\_EDGE850\_mid\_chan\_amb\_temp\_23\_2\_liq\_temp\_22\_3C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2

Medium parameters used (interpolated): f = 836.8 MHz; s = 0.859 mho/m; e = 42.3; density =

1000 kg/m<sup>3</sup>

Phantom section: Left Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.703 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 29.0 V/m; Power Drift = 0.194 dB

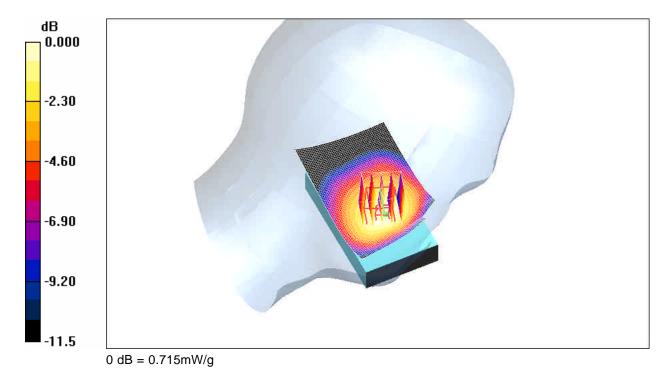
Peak SAR (extrapolated) = 0.835 W/kg

SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.476 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.715 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>9(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page 10(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 25/07/2008 8:14:09 PM

Test Laboratory: RTS

File Name: LeftHandSide\_Tilt\_EDGE850\_mid\_chan\_amb\_temp\_23\_6\_lig\_temp\_22\_5C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2

Medium parameters used (interpolated): f = 836.8 MHz; s = 0.859 mho/m; e = 42.3; density =

1000 kg/m<sup>3</sup>

Phantom section: Left Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.424 mW/g

Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 19.7 V/m; Power Drift = 0.001 dB

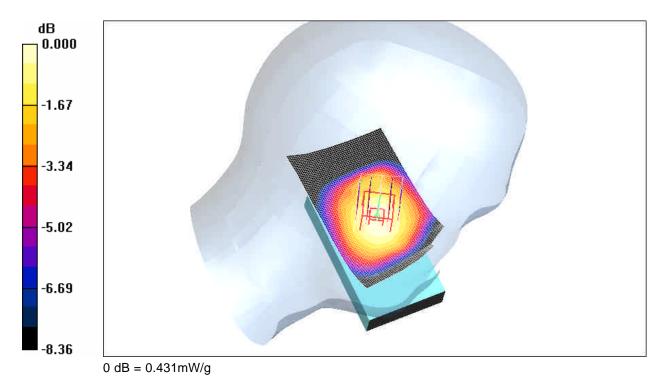
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.308 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.431 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page 11(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the BlackE SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>12(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 25/07/2008 8:39:26 PM

Test Laboratory: RTS

File Name: LeftHandSide\_GSM850\_mid\_chan\_amb\_temp\_23\_4\_liq\_temp\_22\_4C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): f = 836.8 MHz; s = 0.859 mho/m; e = 42.3; density =

1000 kg/m<sup>3</sup>

Phantom section: Left Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.702 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 29.9 V/m; Power Drift = 0.014 dB

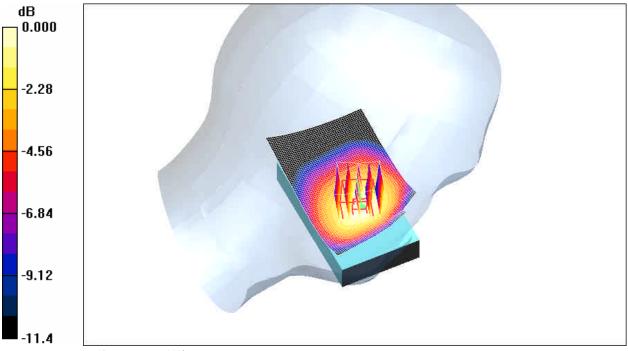
Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.469 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.708 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page 13(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the BlackE SAR Report	Berry® Smartphone Model RB	Z41GW	Page 14(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 23/07/2008 6:41:24 PM

Test Laboratory: RTS

File Name: RightHandSide\_EDGE1900\_high\_chan\_amb\_temp\_23.6\_liq\_temp\_22.5C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2

Medium parameters used: f = 1910 MHz; s = 1.47 mho/m;  $e_f = 38.2$ ; density = 1000 kg/m<sup>3</sup>

Phantom section: Right Section

# DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.851 mW/g

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

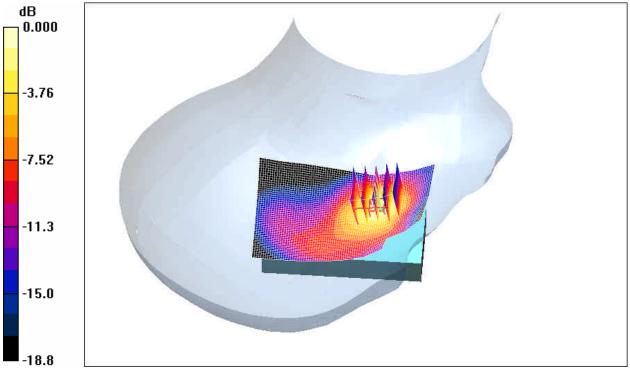
Reference Value = 29.5 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.594 mW/g

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

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page 15(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



0 dB = 1.11 mW/g

RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>16(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 23/07/2008 7:49:08 PM

Test Laboratory: RTS

File Name: RightHandSide\_Tilt\_EDGE1900\_high\_chan\_amb\_temp\_23.4\_liq\_temp\_22.4C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2

Medium parameters used: f = 1910 MHz; s = 1.47 mho/m; e = 38.2; density = 1000 kg/m<sup>3</sup>

Phantom section: Right Section

# DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilt position - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.318 mW/g

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

Reference Value = 14.4 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.403 W/kg

**SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.167 mW/g** Maximum value of SAR (measured) = 0.303 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page 17(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>18(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 23/07/2008 10:10:08 PM

Test Laboratory: RTS

File Name: RightHandSide\_GSM1900\_high\_chan\_amb\_temp\_23.3\_liq\_temp\_22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: f = 1910 MHz; s = 1.47 mho/m; e = 38.2; density = 1000 kg/m<sup>3</sup>

Phantom section: Right Section

# DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.10 mW/g

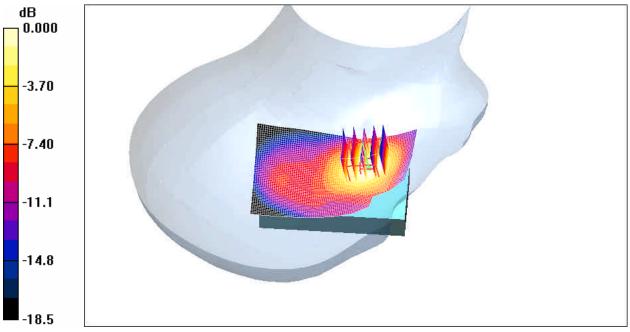
**Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.4 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.948 mW/g; SAR(10 g) = 0.563 mW/g Maximum value of SAR (measured) = 1.05 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	serry® Smartphone Model RB	Z41GW	Page 19(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the BlackB SAR Report	serry® Smartphone Model RB	Z41GW	Page <b>20(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 23/07/2008 10:48:57 PM

Test Laboratory: RTS

File Name: LeftHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_23\_5\_liq\_temp\_22\_4C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: f = 1880 MHz; s = 1.44 mho/m; e = 38.3; density = 1000 kg/m<sup>3</sup>

Phantom section: Left Section

# DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Mid/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.713 mW/g

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

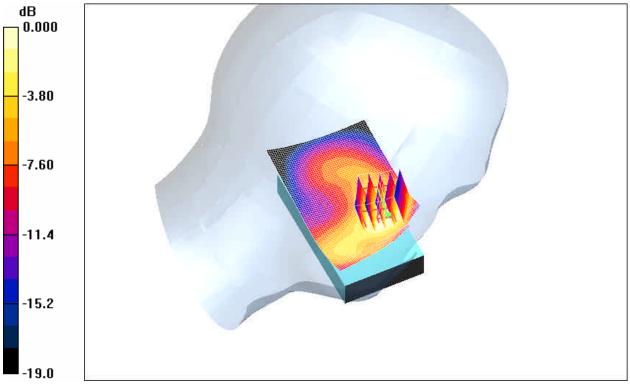
Reference Value = 24.3 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.953 W/kg

SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.426 mW/g

Maximum value of SAR (measured) = 0.737 mW/g

RTS RIM Testing Services	Appendix for the Black SAR Report	ckBerry® Smartphone Model Rl	BZ41GW	Page <b>21(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>22(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 23/07/2008 11:30:23 PM

Test Laboratory: RTS

File Name: LeftHandSide\_Tilt\_EDGE1900\_mid\_chan\_amb\_temp\_23\_5\_liq\_temp\_22\_5C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: f = 1880 MHz; s = 1.44 mho/m; e = 38.3; density = 1000 kg/m<sup>3</sup>

Phantom section: Left Section

# DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilt position - Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.461 mW/g

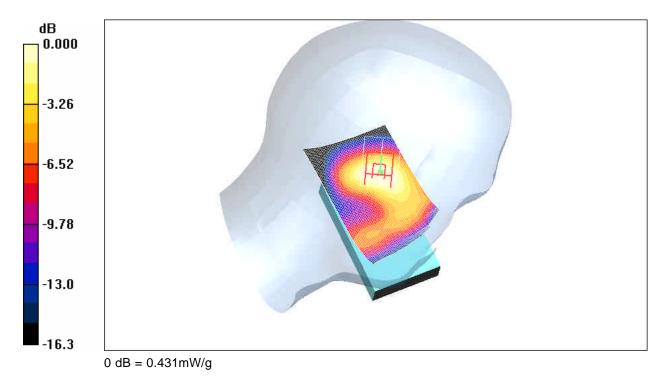
**Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 0.560 W/kg

**SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.244 mW/g** Maximum value of SAR (measured) = 0.431 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>23(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>24(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 24/07/2008 12:12:14 AM

Test Laboratory: RTS

File Name: LeftHandSide\_GSM1900\_mid\_chan\_amb\_temp\_23\_7\_lig\_temp\_22\_6C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761849

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 1880 MHz; s = 1.44 mho/m; e = 38.3; density = 1000 kg/m<sup>3</sup>

Phantom section: Left Section

# DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(5.15, 5.15, 5.15); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Mid/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.811 mW/g

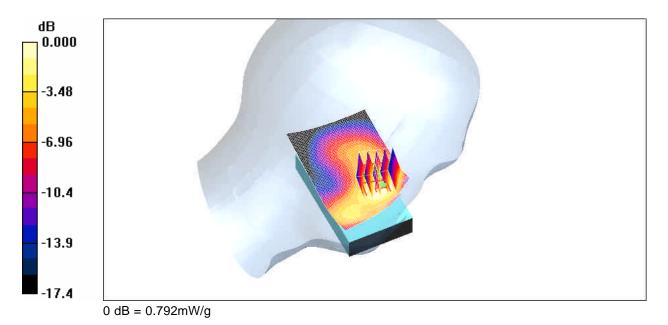
**Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.731 mW/g; SAR(10 g) = 0.450 mW/g** Maximum value of SAR (measured) = 0.792 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>25(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the BlackE SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>26(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 18/07/2008 5:03:59 PM

Test Laboratory: RTS

File Name: RightHandSide\_802.11b\_low\_chan\_amb\_temp\_24.4\_liq\_temp\_23.0C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761A7D

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; s = 1.87 mho/m; e = 37.7; density = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.312 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 5.13 V/m; Power Drift = 0.179 dB

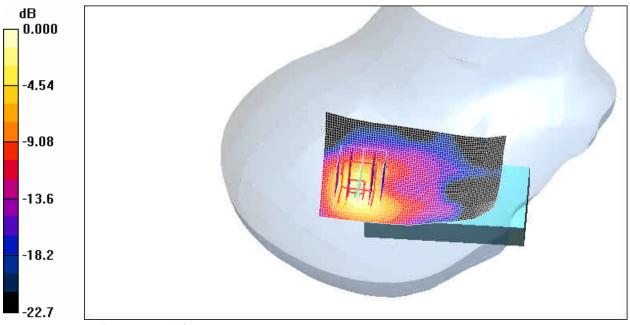
Peak SAR (extrapolated) = 0.774 W/kg

SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.141 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.381 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>27(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>28(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 18/07/2008 6:49:47 PM

Test Laboratory: RTS

File Name: RightHandSide\_Tilt\_802.11b\_low\_chan\_amb\_temp\_24.3\_liq\_temp\_22.9C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761A7D

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; s = 1.87 mho/m; e = 37.7; density = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.460 mW/g

Tilt position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 5.60 V/m; Power Drift = -0.016 dB

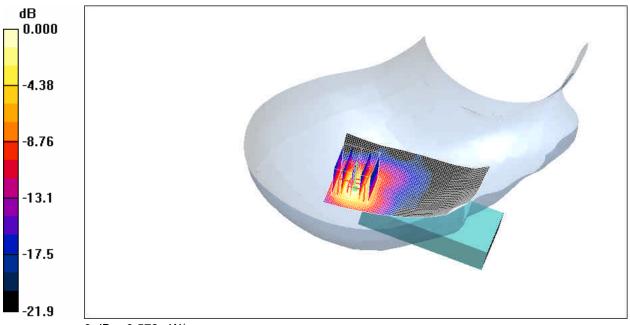
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.206 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.573 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	serry® Smartphone Model RB	Z41GW	Page <b>29(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>30(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 18/07/2008 8:51:42 PM

Test Laboratory: RTS

File Name: LeftHandSide\_802.11b\_low\_chan\_amb\_temp\_24.1\_liq\_temp\_22.8C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761A7D

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; s = 1.87 mho/m; e = 37.7; density = 1000

kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.230 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.153 dB

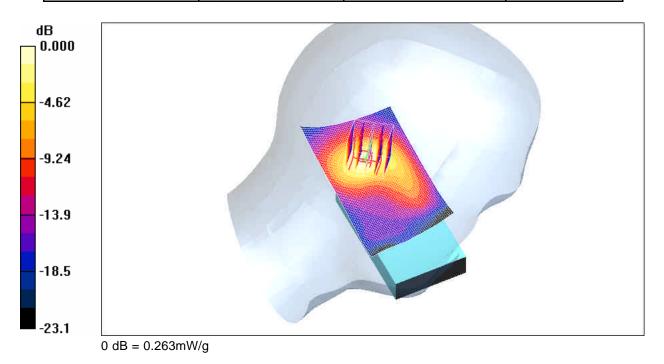
Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.109 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.263 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page 31(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page 32(39)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 18/07/2008 9:25:10 PM

Test Laboratory: RTS

File Name: LeftHandSide\_Tilt\_802.11b\_low\_chan\_amb\_temp\_24.2\_liq\_temp\_22.8C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761A7D

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; s = 1.87 mho/m; e = 37.7; density = 1000

kg/m<sup>3</sup>

Phantom section: Left Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.378 mW/g

Tilt position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 15.1 V/m; Power Drift = -0.120 dB

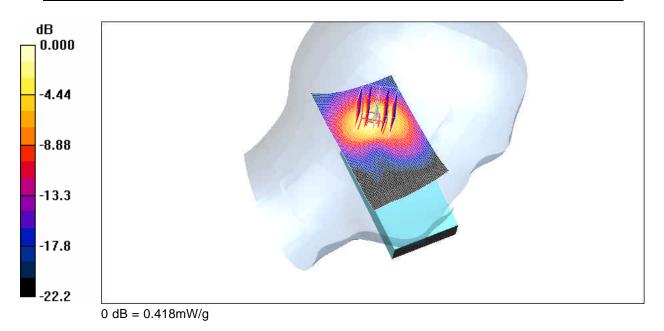
Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.163 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.418 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>33(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>34(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 29/07/2008 1:30:12 PM

Test Laboratory: RTS

File Name: RightHandSide\_BT\_mid\_chan\_amb\_temp\_23.1\_liq\_temp\_22.4C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761A7D

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2441 MHz; s = 1.95 mho/m; e = 37.6; density = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.024 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 1.01 V/m; Power Drift = 0.134 dB

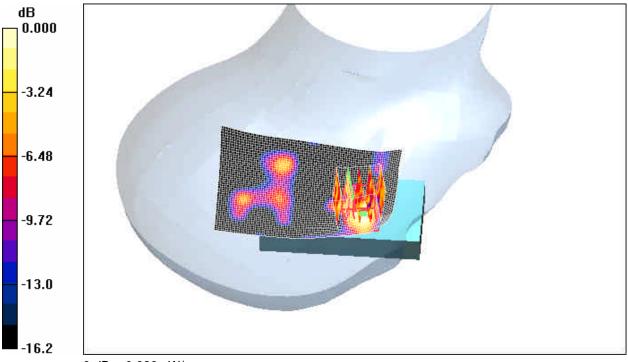
Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.000516 mW/g; SAR(10 g) = 5.67e-005 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.020 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>35(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>36(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

Date/Time: 29/07/2008 2:36:28 PM

Test Laboratory: RTS

File Name: LeftHandSide\_BT\_mid\_chan\_amb\_temp\_23.8\_liq\_temp\_22.6C.da4

DUT: BlackBerry Smartphone; Type: Sample; Serial: 20761A7D

**Program Name: Compliance Testing: P1528 Protocol** 

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2441 MHz; s = 1.95 mho/m; e = 37.6; density = 1000

kg/m<sup>3</sup>

Phantom section: Left Section

### DASY4 Configuration:

- Probe: ET3DV6 SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.017 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 0.973 V/m; Power Drift = 0.950 dB

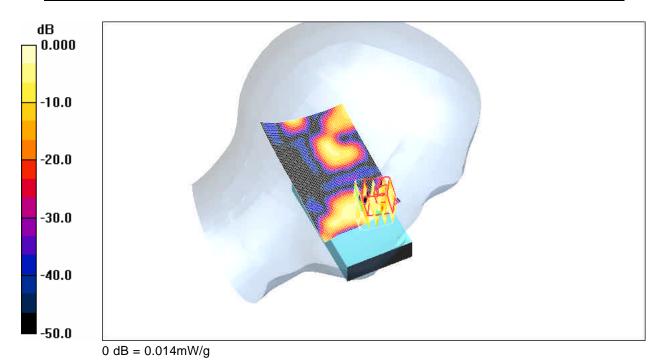
Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.000255 mW/g; SAR(10 g) = 3.32e-005 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

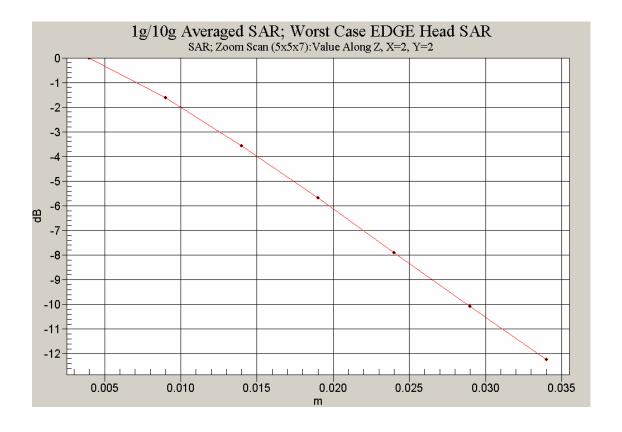
Maximum value of SAR (measured) = 0.014 mW/g

RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>37(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW



RTS RIM Testing Services	Appendix for the Black! SAR Report	Berry® Smartphone Model RB	Z41GW	Page <b>38(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ40GW	

# Z axis plot for the worst case head configuration:



RTS RIM Testing Services	Appendix for the BlackB SAR Report	erry® Smartphone Model RB	Z41GW	Page <b>39(39)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	July 16-29, 2008	RTS-1115-0807-21 Rev1	L6ARBZ	40GW

