

RTS RIM Testing Services	Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report		Page 1(8)
Author Data Jean-Paul Hacquoil	Dates of Test Sep 25 - Oct 07, 2008	Test Report No RTS-1191-0810-09	FCC ID: L6ARCC50UW

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 25/09/2008 1:38:29 PM

Test Laboratory: RTS

File Name:

[RightHandSide_EDGE850_2slots_mid_chan_amb_temp_23.8_liq_temp_21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20C856F5
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: EDGE 850; Frequency: 836.8 MHz; Duty Cycle: 1:2.1
Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

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) = 0.624 mW/g

Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.36 V/m; Power Drift = -0.181 dB

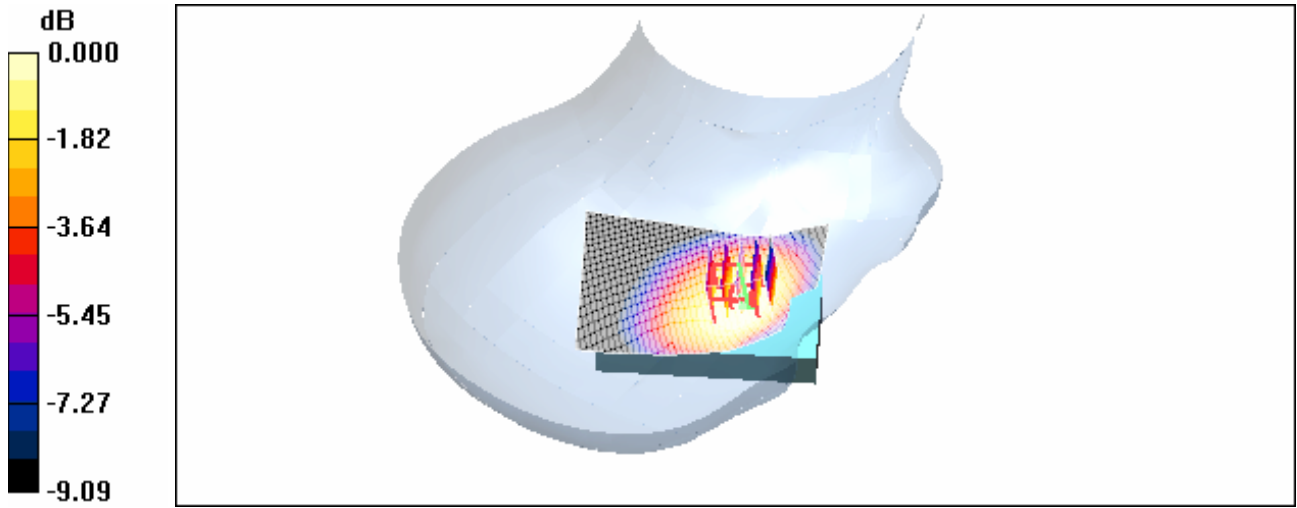
Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.444 mW/g

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

Maximum value of SAR (measured) = 0.592 mW/g

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0 dB = 0.592mW/g

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Date/Time: 25/09/2008 12:33:50 PM

Test Laboratory: RTS

File Name:

[RightHandSide_EDGE850_4_slots_mid_chan_amb_temp_22.9_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20C856F5
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: EDGE 850 (4 slots); Frequency: 836.8 MHz; Duty Cycle: 1:2.1
Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.861$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

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) = 0.497 mW/g

Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.42 V/m; Power Drift = -0.039 dB

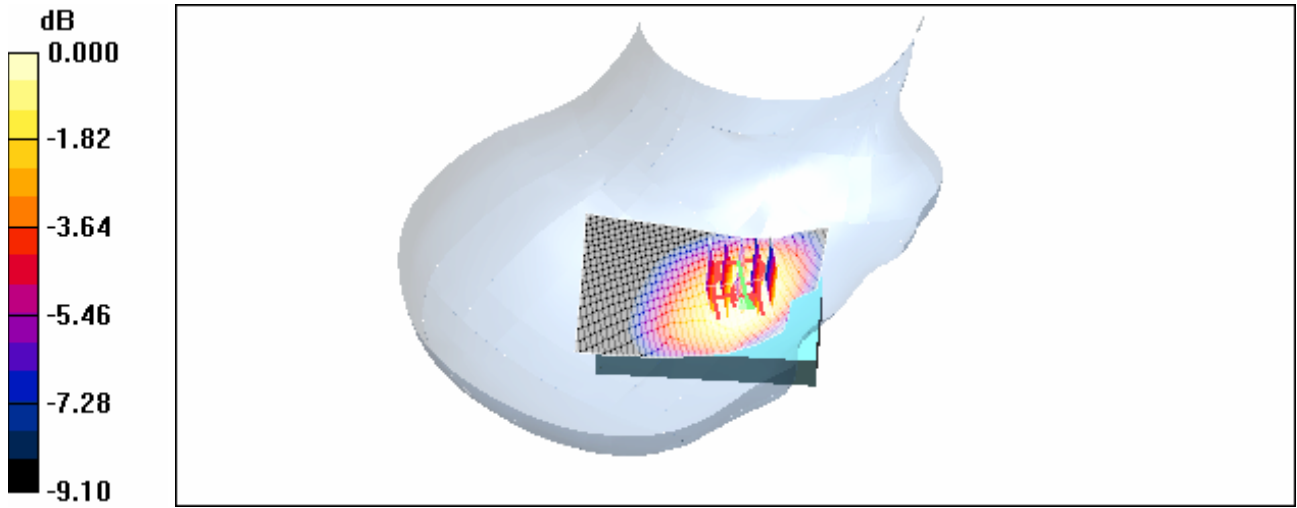
Peak SAR (extrapolated) = 0.551 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.351 mW/g

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

Maximum value of SAR (measured) = 0.481 mW/g

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0 dB = 0.481mW/g

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Date/Time: 07/10/2008 1:02:33 PM

Test Laboratory: RTS

File Name:

[RightHandSide_EDGE1900\(2_slots\)_mid_chan_amb_temp_24.1_liq_temp_23.7C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20C856F5
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: EDGE 1900(2 slots) ; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
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 - Mid/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$,
 $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.609 mW/g

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

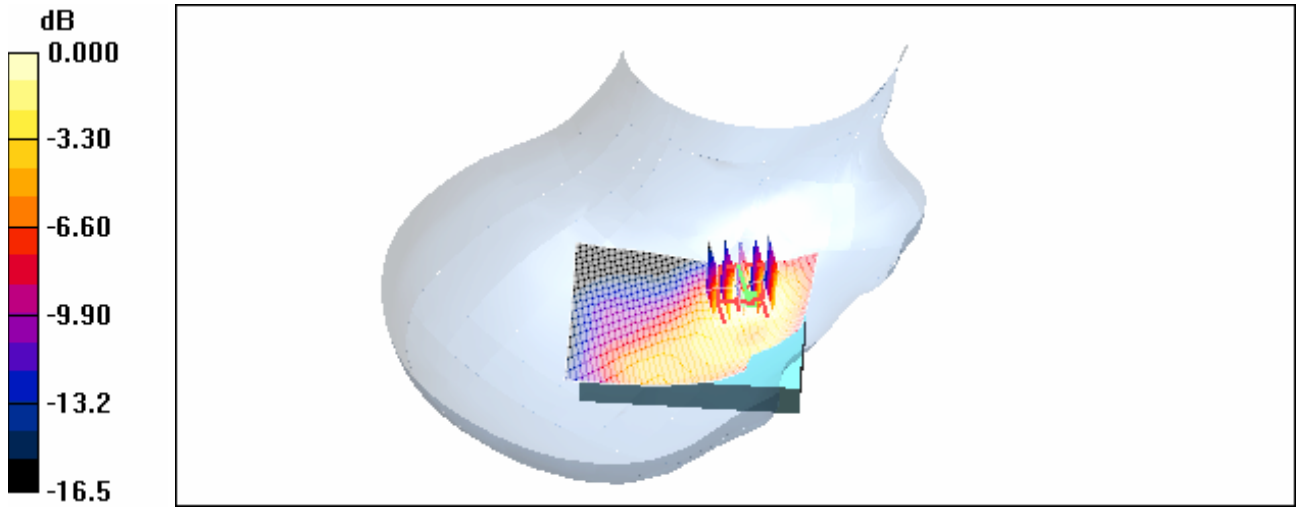
Reference Value = 6.47 V/m; Power Drift = 0.271 dB

Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.582 mW/g

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0 dB = 0.582mW/g

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Z axis plot for the worst case head configuration:

