

| | | | |
|---|--|---|------------------------------|
| RTS RIM Testing Services | Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report | | Page 1(6) |
| Author Data Jean-Paul Hacquoil | Dates of Test Sep 25 - Oct 07, 2008 | Test Report No RTS-1191-0810-09 | FCC ID: L6ARBW70CW |

APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

| | | | |
|---|---|---|---|
| RTS RIM Testing Services | Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report | | Page 2(6) |
| | Author Data Jean-Paul Hacquoil | Dates of Test Sep 25 - Oct 07, 2008 | Test Report No RTS-1191-0810-09 |

Date/Time: 25/09/2008 3:18:30 PM

Test Laboratory: RTS

File Name:

[Leather Swivel Holster Back GPRS850 2slots mid_chan_amb_temp_22.2C_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20C856F5
Program Name: Compliance Testing: P1528 Protocol (Body worn)

Communication System: GPRS 850 ; Frequency: 836.8 MHz; Duty Cycle: 1:2.1
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.13, 6.13, 6.13); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.530 mW/g

Body - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.4 V/m; Power Drift = -0.126 dB

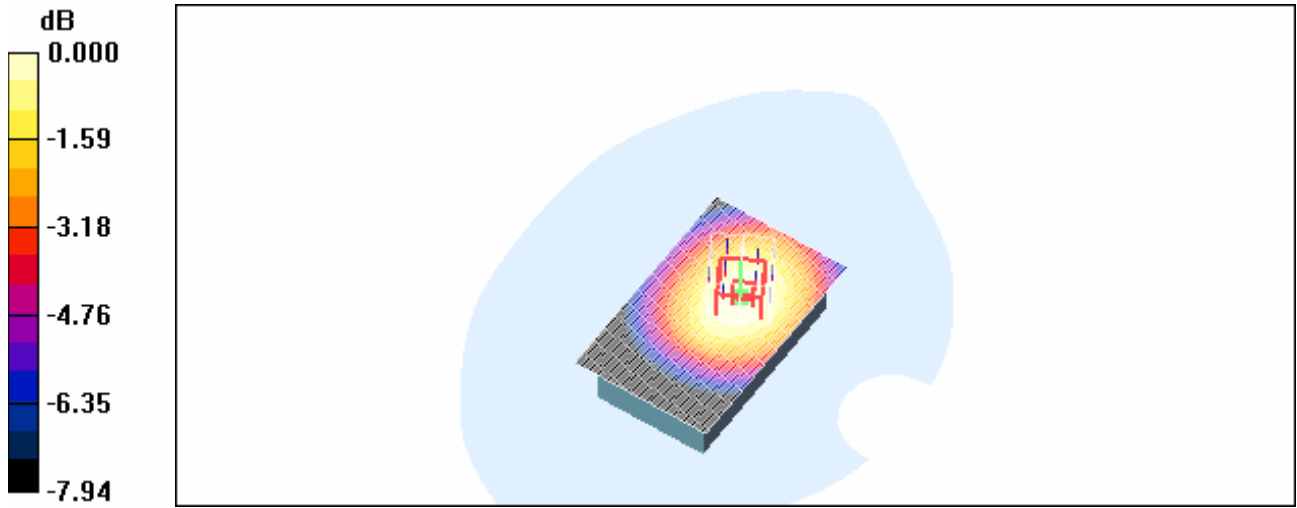
Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.375 mW/g

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

Maximum value of SAR (measured) = 0.523 mW/g

| | | | |
|------------------------------------|---|---|---|
| RTS RIM Testing Services | Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report | | Page 3(6) |
| | Author Data Jean-Paul Hacquoil | Dates of Test Sep 25 - Oct 07, 2008 | Test Report No RTS-1191-0810-09 |
| | | FCC ID: L6ARBW70CW | |



0 dB = 0.523mW/g

| | | | |
|---|--|---|---|
| RTS RIM Testing Services | Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report | | Page 4(6) |
| | Author Data Jean-Paul Hacquoil | Dates of Test Sep 25 - Oct 07, 2008 | Test Report No RTS-1191-0810-09 |

Date/Time: 07/10/2008 1:26:39 PM

Test Laboratory: RTS

File Name:

[Leather Swivel Holster Back GPRS1900_mid_chan_amb_temp_23.5C_liq_temp_22.3 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20C856F5
Program Name: Compliance Testing: P1528 Protocol (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used (extrapolated): $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.85, 4.85, 4.85); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 05/03/2008
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Body - Middle/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.357 mW/g

Body - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.92 V/m; Power Drift = 0.276 dB

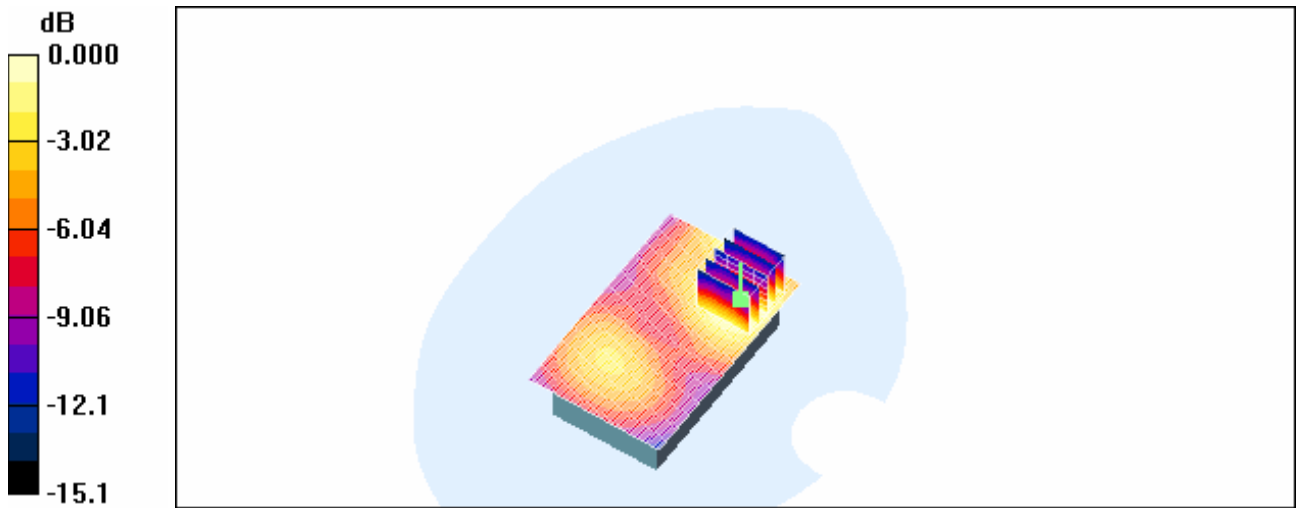
Peak SAR (extrapolated) = 0.554 W/kg

SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.208 mW/g

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

Maximum value of SAR (measured) = 0.361 mW/g

| | | | |
|---|--|---|---|
| RTS RIM Testing Services | Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report | | Page 5(6) |
| | Author Data Jean-Paul Hacquoil | Dates of Test Sep 25 - Oct 07, 2008 | Test Report No RTS-1191-0810-09 |



0 dB = 0.361mW/g

| | | | |
|---|--|---|---|
| RTS RIM Testing Services | Document Appendix for the BlackBerry® Smartphone Model RCC51UW SAR Report | | Page 6(6) |
| | Author Data Jean-Paul Hacquoil | Dates of Test Sep 25 - Oct 07, 2008 | Test Report No RTS-1191-0810-09 |

Z axis plots for the worst case body worn configuration:

