



Document

Appendix A for the BlackBerry® Smartphone Model RDG71UW SAR ReportPage
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| Author Data Andrew Becker | Dates of Test July 19 – Aug. 6, 2010 | Test Report No RTS-2337-1008-36 | FCC ID: L6ARDG70UW | IC ID 2503A-RDG70UW |
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APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 7/27/2010 11:52:25 AM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_Amb_Tem_22.6_Liq_Tem_22.2C_07_27_10

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.895$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 107.4 V/m; Power Drift = -0.021 dB

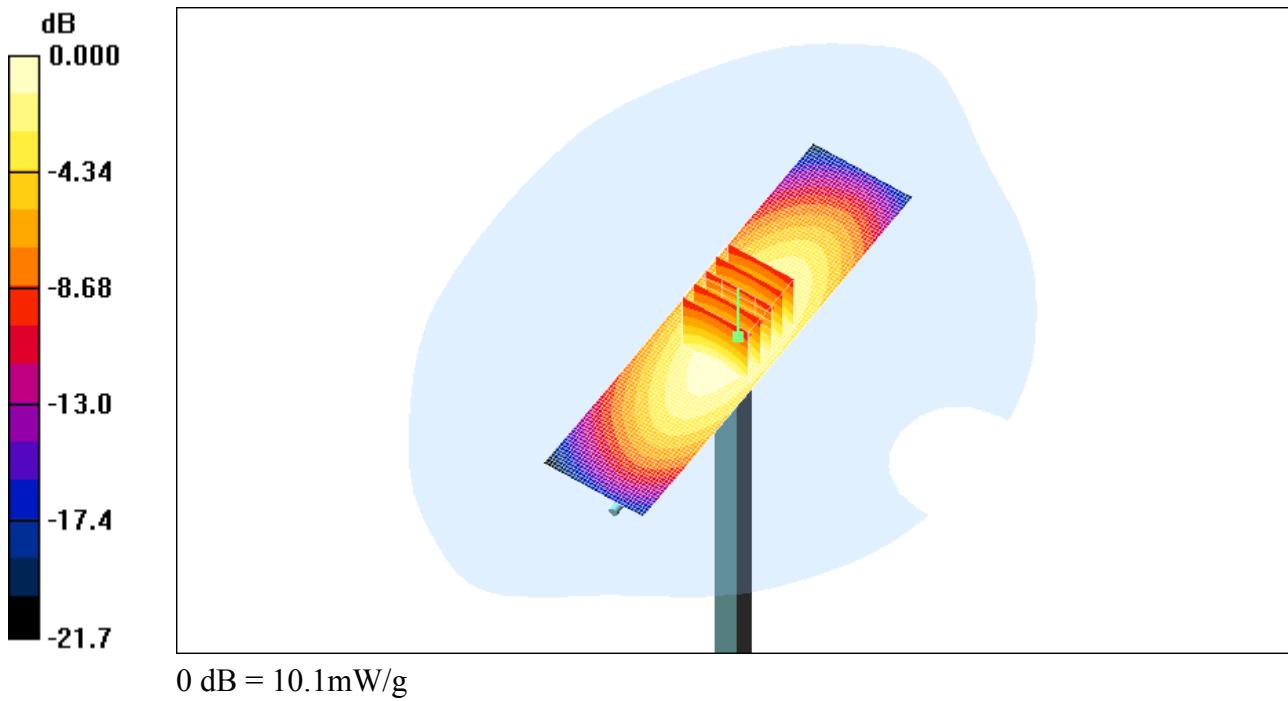
Peak SAR (extrapolated) = 14.0 W/kg

SAR(1 g) = 9.39 mW/g; SAR(10 g) = 6.15 mW/g

Maximum value of SAR (measured) = 10.2 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.1 mW/g

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Andrew BeckerDates of Test
July 19 – Aug. 6, 2010Test Report No
RTS-2337-1008-36FCC ID:
L6ARDG70UWIC ID
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Date/Time: 7/19/2010 6:25:00 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_Amb_Tem_22.7_Liq_Tem_22.1_C_07_19_1

0

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 179.9 V/m; Power Drift = 0.034 dB

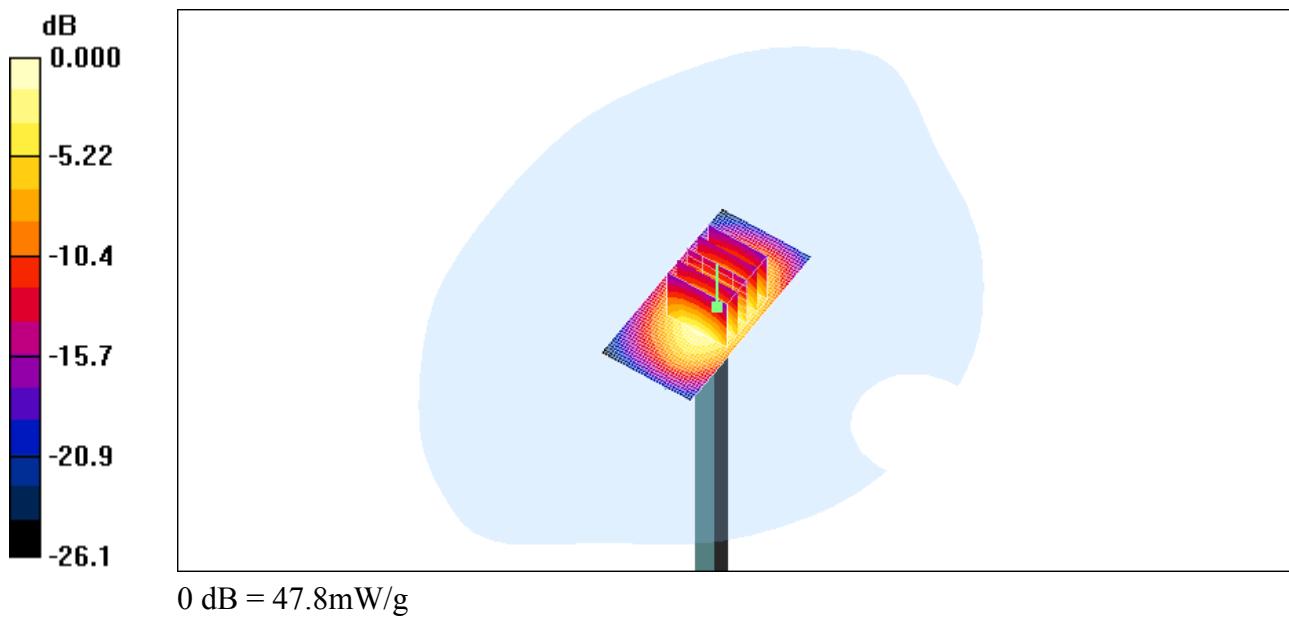
Peak SAR (extrapolated) = 78.3 W/kg

SAR(1 g) = 42.1 mW/g; SAR(10 g) = 21.7 mW/g

Maximum value of SAR (measured) = 47.5 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 47.8 mW/g

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Date/Time: 8/5/2010 12:42:17 AM

Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_Amb_Tem_23.1_Liq_Tem_22.4_C_08_05_1

0

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 183.1 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 110.3 W/kg

SAR(1 g) = 53.4 mW/g; SAR(10 g) = 24.7 mW/g

Maximum value of SAR (measured) = 60.4 mW/g

d=15mm, Pin=1000mW/Area Scan (31x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 66.0 mW/g

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