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	<b>Appendix A for the BlackBerry® Smartphone Model REC71UW SAR Report</b>			<b>1(29)</b>
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
<b>Andrew Becker</b>	<b>June 28 – September 16, 2011</b>	<b>RTS-5385-1108-74</b>	<b>L6AREC70UW</b>	<b>2503A-REC70UW</b>

**APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION**

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 7/28/2011 7:58:52 PM, Date/Time: 7/28/2011 8:03:41 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_835MHz\_Amb\_Tem\_23.4\_Liq\_Tem\_23.1C\_07\_28\_11

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

Communication System: CWFrequency: 835 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.899 \text{ mho/m}$ ;  $\epsilon_r = 39.89$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 9.884 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 106.8 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 13.929 W/kg  
**SAR(1 g) = 9.23 mW/g; SAR(10 g) = 6.03 mW/g**  
Maximum value of SAR (measured) = 9.987 mW/g

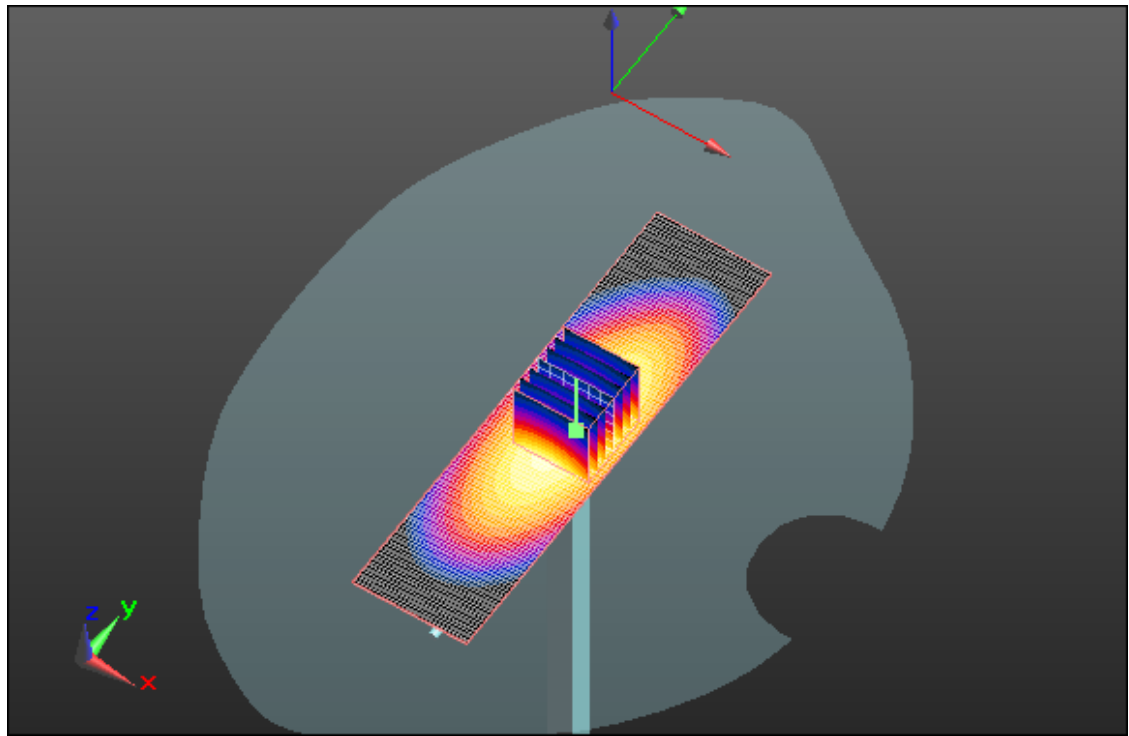
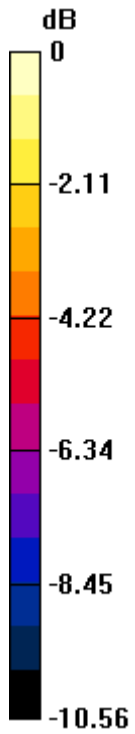
Author Data  
**Andrew Becker**

Dates of Test  
**June 28 – September 16, 2011**


Test Report No  
**RTS-5385-1108-74**

FCC ID:  
**L6AREC70UW**

IC ID  
**2503A-REC70UW**



0 dB = 9.990mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/2/2011 6:23:53 PM, Date/Time: 8/2/2011 6:28:43 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_835MHz\_Amb\_Tem\_23.8\_Liq\_Tem\_23.1C\_08\_02\_11

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

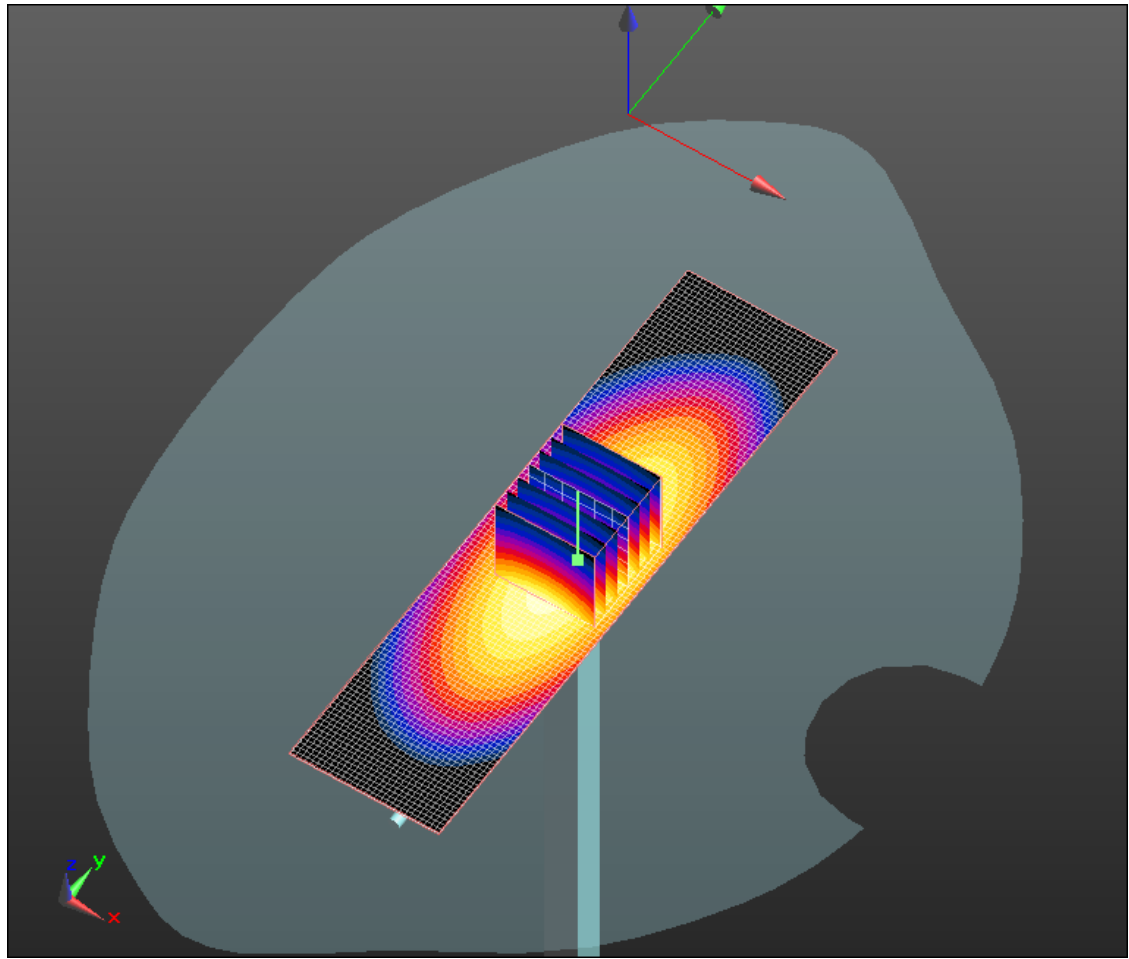
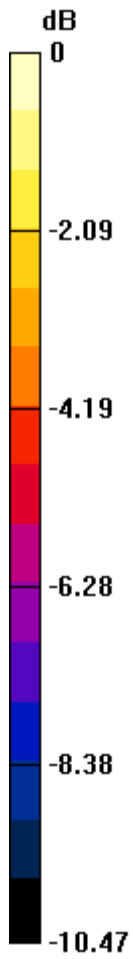
Communication System: CW; Frequency: 835 MHz; Communication System PAR: 0 dB  
 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.872 \text{ mho/m}$ ;  $\epsilon_r = 41.556$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(6.47, 6.47, 6.47); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 9.528 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 105.5 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 13.391 W/kg  
**SAR(1 g) = 8.92 mW/g; SAR(10 g) = 5.83 mW/g**  
 Maximum value of SAR (measured) = 9.616 mW/g



0 dB = 9.620mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 9/15/2011 12:25:11 PM, Date/Time: 9/15/2011 12:29:54 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_835MHz\_09\_15\_11\_Amb\_Tem\_24.5\_Liq\_Tem\_22.6C

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

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.938$  mho/m;  $\epsilon_r = 39.894$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.11, 6.11, 6.11); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

Maximum value of SAR (interpolated) = 11.452 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube**

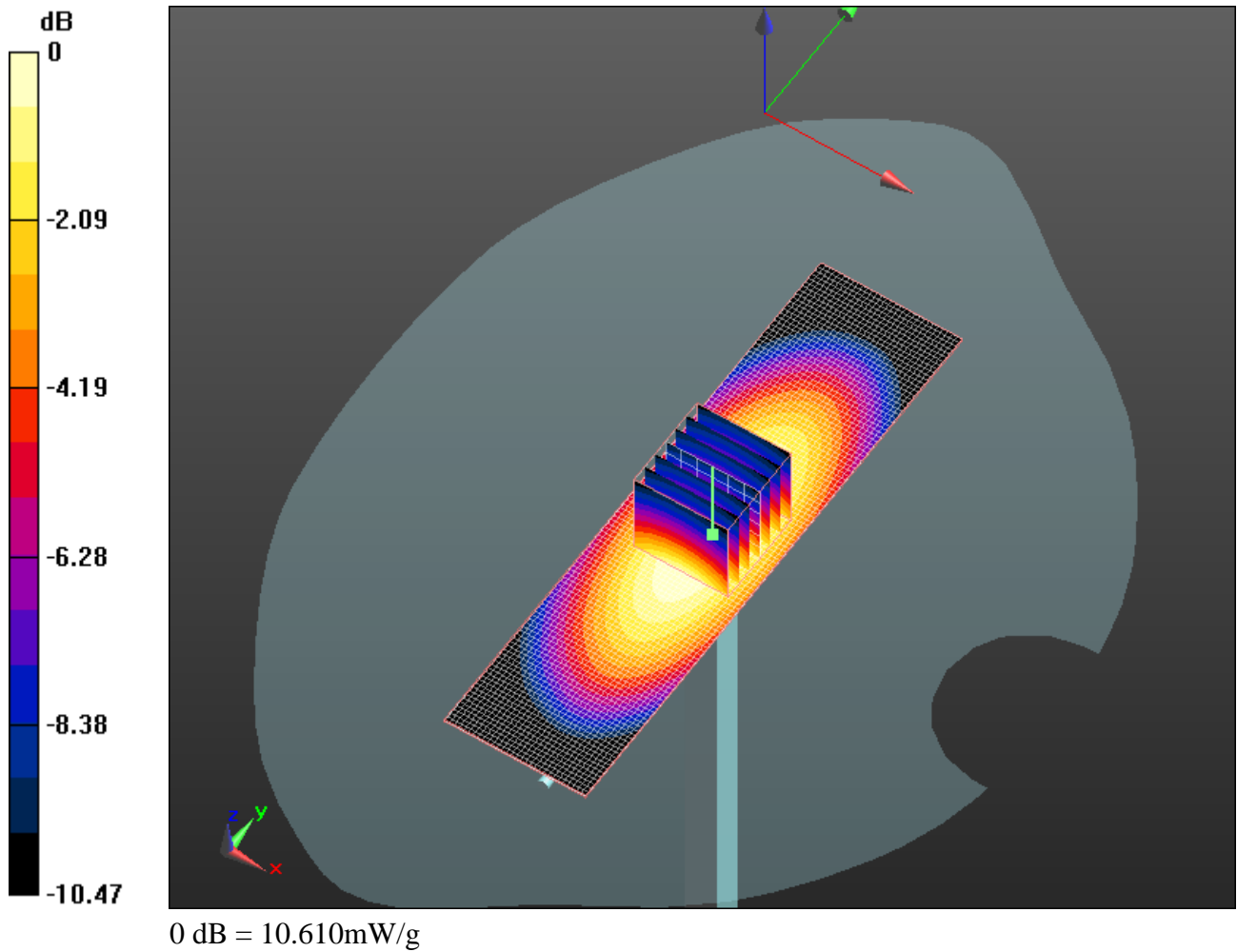
**0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm


Reference Value = 114.5 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 14.819 W/kg

**SAR(1 g) = 9.85 mW/g; SAR(10 g) = 6.43 mW/g**

Maximum value of SAR (measured) = 10.611 mW/g



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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/11/2011 8:13:42 PM, Date/Time: 8/11/2011 8:16:16 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_1900MHz\_08\_11\_11\_Amb\_Tem\_23.0\_Liq\_Tem\_22.9C

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

Communication System: CW; Frequency: 1900 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.377$  mho/m;  $\epsilon_r = 38.348$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

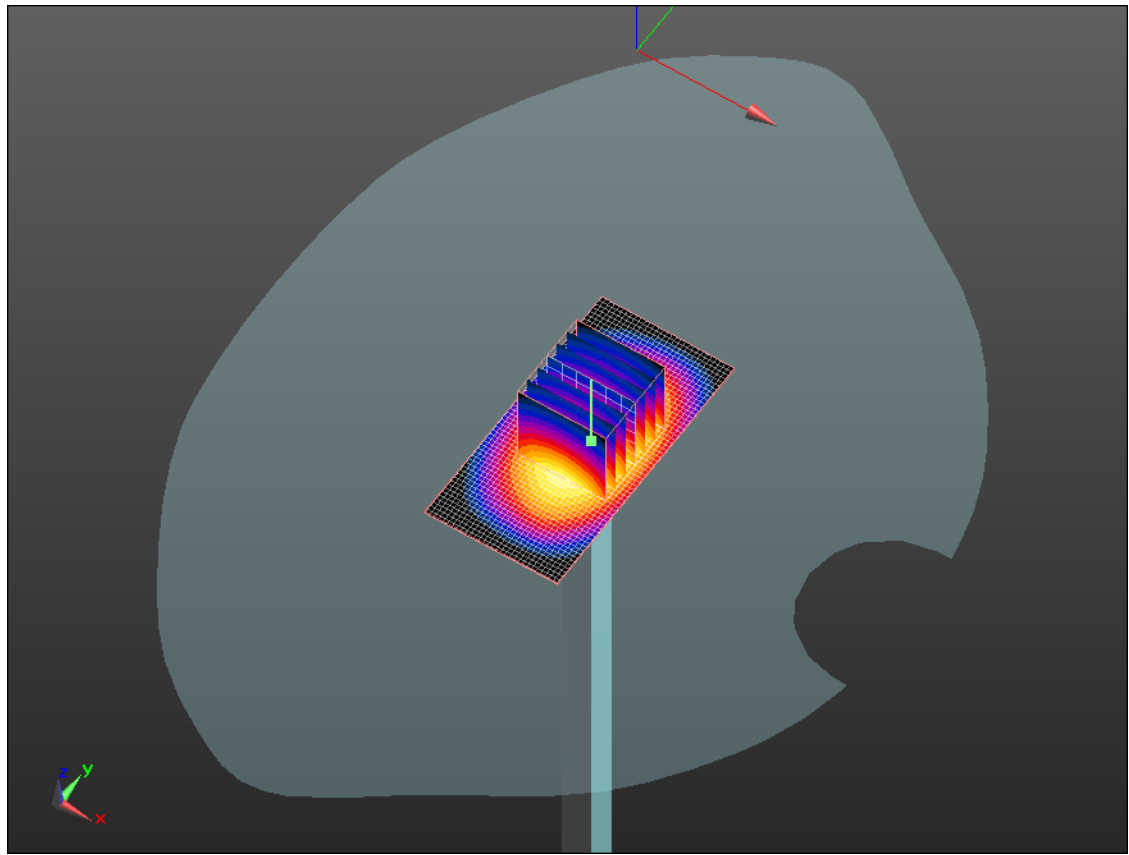
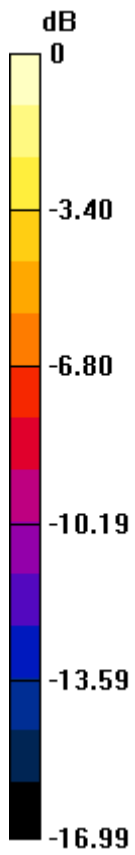
DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


**Configuration/d=15mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 45.784 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 193.6 V/m; Power Drift = -0.0073 dB  
Peak SAR (extrapolated) = 73.407 W/kg  
**SAR(1 g) = 40.3 mW/g; SAR(10 g) = 21.1 mW/g**  
Maximum value of SAR (measured) = 45.097 mW/g





0 dB = 45.100mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/23/2011 10:00:51 AM, Date/Time: 8/23/2011 10:03:26 AM

Test Laboratory: RIM Testing Services

## DipoleValidation\_1900MHz\_08\_15\_11\_Amb\_Tem\_23.8\_Liq\_Tem\_23.0C

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

Communication System: CW; Frequency: 1900 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/d=15mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 44.040 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 181.4 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 69.948 W/kg  
**SAR(1 g) = 38.5 mW/g; SAR(10 g) = 20.3 mW/g**  
Maximum value of SAR (measured) = 43.306 mW/g

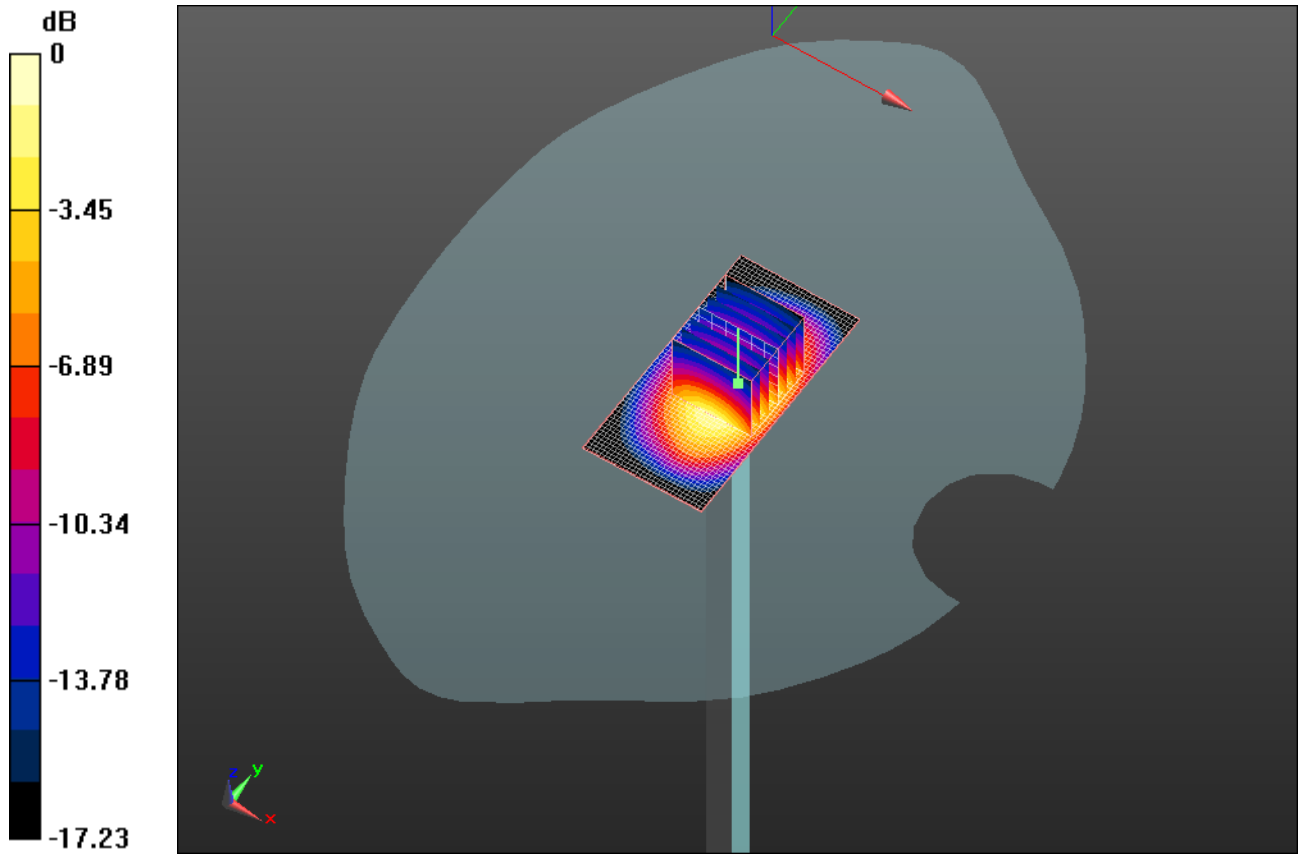
Author Data  
**Andrew Becker**

Dates of Test  
**June 28 – September 16, 2011**


Test Report No  
**RTS-5385-1108-74**

FCC ID:  
**L6AREC70UW**

IC ID  
**2503A-REC70UW**



0 dB = 43.310mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 9/13/2011 12:21:26 PM, Date/Time: 9/13/2011 12:36:00 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_1900MHz\_09\_13\_11\_Amb\_Tem\_24.2\_Liq\_Tem\_23.0C

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.388$  mho/m;  $\epsilon_r = 39.048$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.26, 5.26, 5.26); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

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

Maximum value of SAR (interpolated) = 50.317 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2**

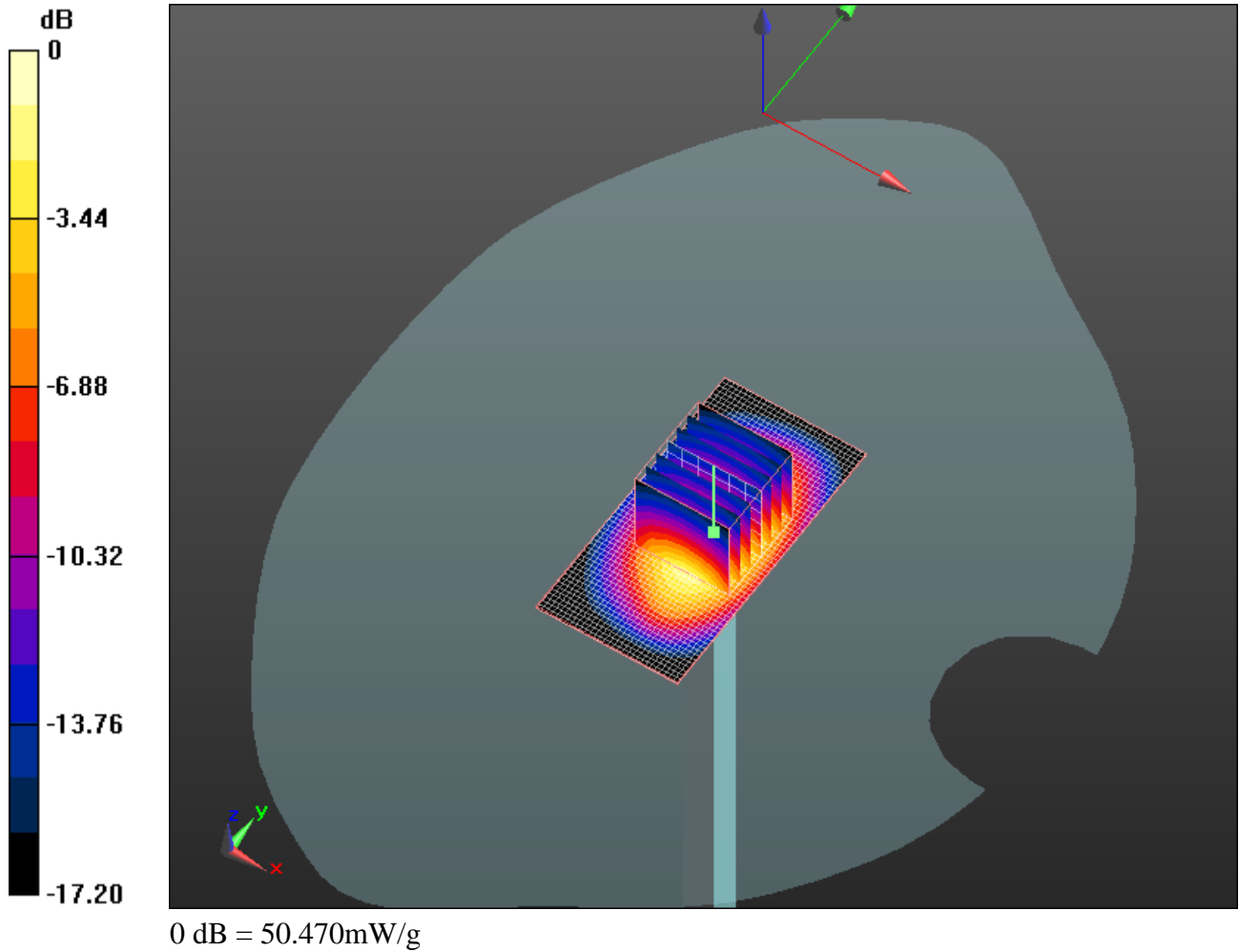
**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm


Reference Value = 195.3 V/m; Power Drift = 0.0036 dB

Peak SAR (extrapolated) = 72.778 W/kg

**SAR(1 g) = 39.7 mW/g; SAR(10 g) = 20.7 mW/g**

Maximum value of SAR (measured) = 50.474 mW/g



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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/19/2011 10:36:50 AM, Date/Time: 8/19/2011 10:38:44 AM

Test Laboratory: RIM Testing Services

## DipoleValidation\_2450MHz\_Amb\_Tem\_23.3\_Liq\_Tem\_23.1C\_08\_19\_11

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

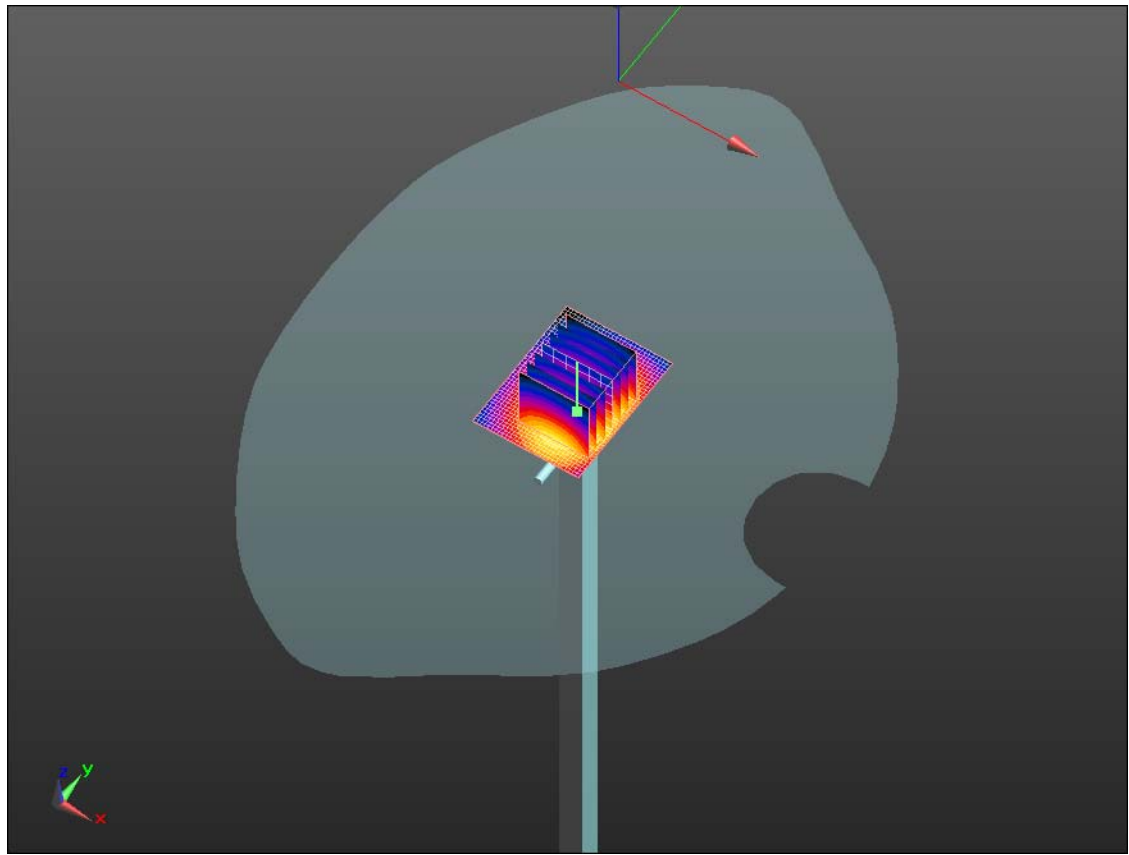
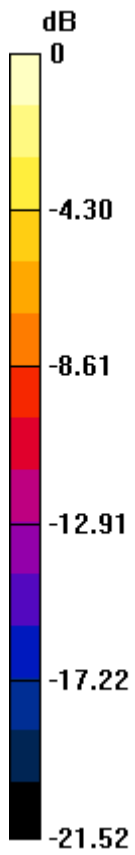
Communication System: CW; Frequency: 2450 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.854$  mho/m;  $\epsilon_r = 37.708$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/d=15mm, Pin=1000mW/Area Scan (31x41x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 66.481 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 171.8 V/m; Power Drift = -0.14 dB  
Peak SAR (extrapolated) = 113.4 W/kg  
**SAR(1 g) = 54.6 mW/g; SAR(10 g) = 25.6 mW/g**  
Maximum value of SAR (measured) = 61.958 mW/g



0 dB = 61.960mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/22/2011 1:52:28 PM, Date/Time: 8/22/2011 1:54:22 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_2450MHz\_Amb\_Tem\_23.8\_Liq\_Tem\_23.0C\_08\_22\_11

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

Communication System: CW; Frequency: 2450 MHz; Communication System PAR: 0 dB  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 37.515$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Measurement Standard: DASYS (IEEE/IEC/1528)

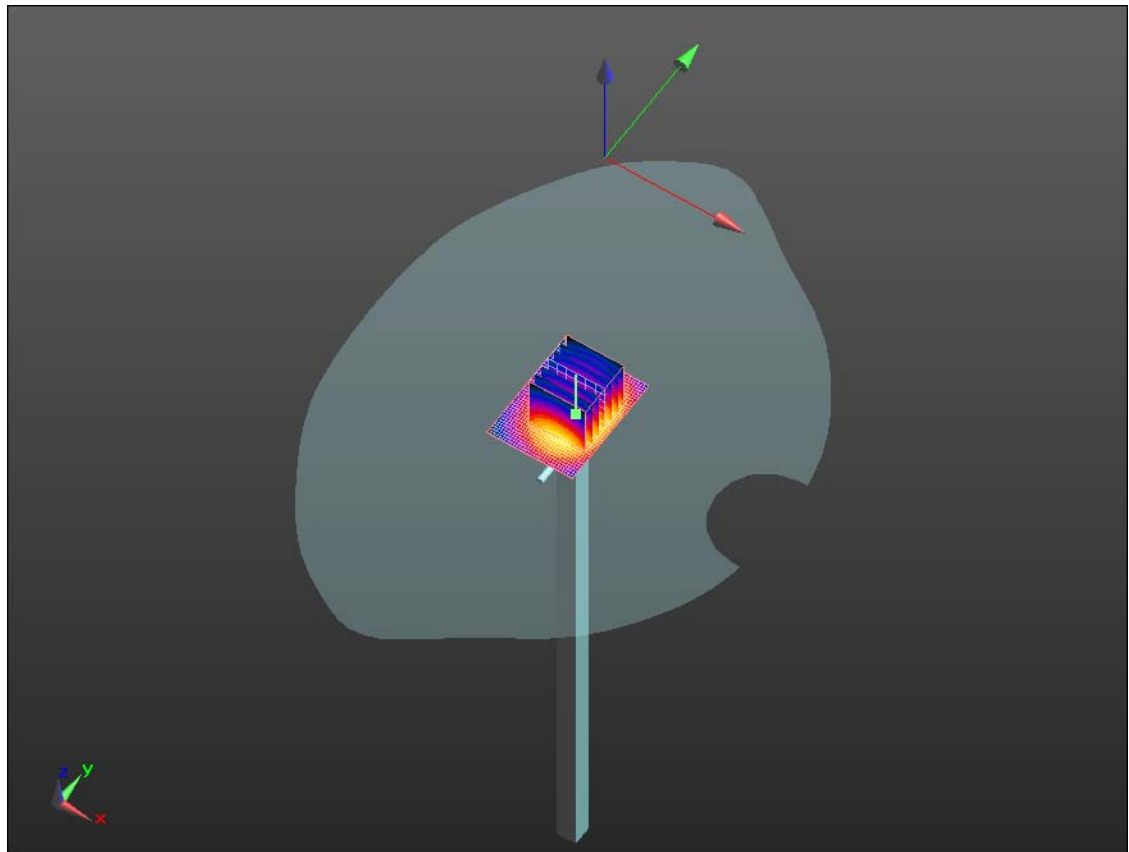
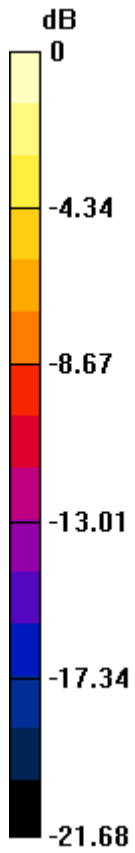
DASY5 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


**Configuration/d=15mm, Pin=1000mW/Area Scan (31x41x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 63.601 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 192.5 V/m; Power Drift = -0.10 dB  
 Peak SAR (extrapolated) = 114.5 W/kg  
**SAR(1 g) = 55 mW/g; SAR(10 g) = 25.5 mW/g**  
 Maximum value of SAR (measured) = 62.703 mW/g





0 dB = 62.700mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 9/6/2011 10:59:42 PM, Date/Time: 9/6/2011 11:01:32 PM

Test Laboratory: RIM Testing Services

## DipoleValidation\_2450MHz\_09\_06\_11\_Amb\_Tem\_23.9\_Liq\_Tem\_23.7C

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

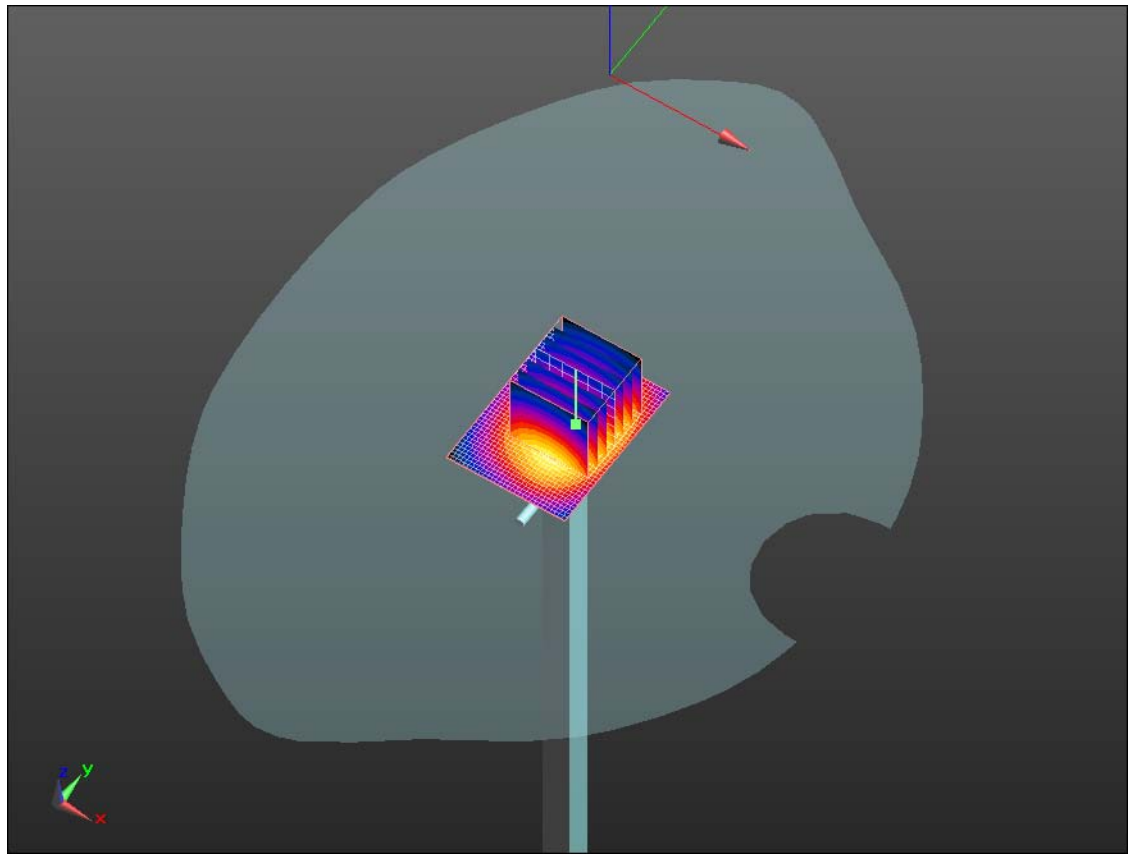
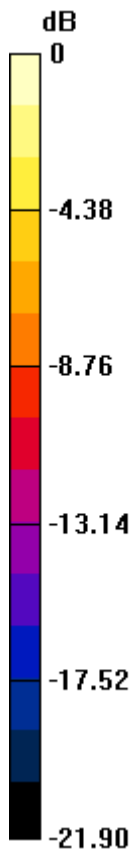
Communication System: CW; Frequency: 2450 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 38.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 1/13/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Configuration/d=15mm, Pin=1000mW/Area Scan (31x41x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 76.512 mW/g

**Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 205.3 V/m; Power Drift = -0.0062 dB  
Peak SAR (extrapolated) = 118.0 W/kg  
**SAR(1 g) = 57.2 mW/g; SAR(10 g) = 26.7 mW/g**  
Maximum value of SAR (measured) = 75.700 mW/g



0 dB = 75.700mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/17/2011 6:20:21 PM, Date/Time: 8/17/2011 6:23:00 PM

Test Laboratory: RIM Testing Services

## Dipole Validation\_5200 MHz\_08\_17\_11

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: CW; Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5200 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.669$  mho/m;  $\epsilon_r = 34.394$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/18/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 179.4 mW/g

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan (3x3x2mm, graded), dist=2mm 2 (11x11x6)/Cube 0:** Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 201.8 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 286.6 W/kg

**SAR(1 g) = 78.1 mW/g; SAR(10 g) = 22.6 mW/g**

Maximum value of SAR (measured) = 159.7 mW/g

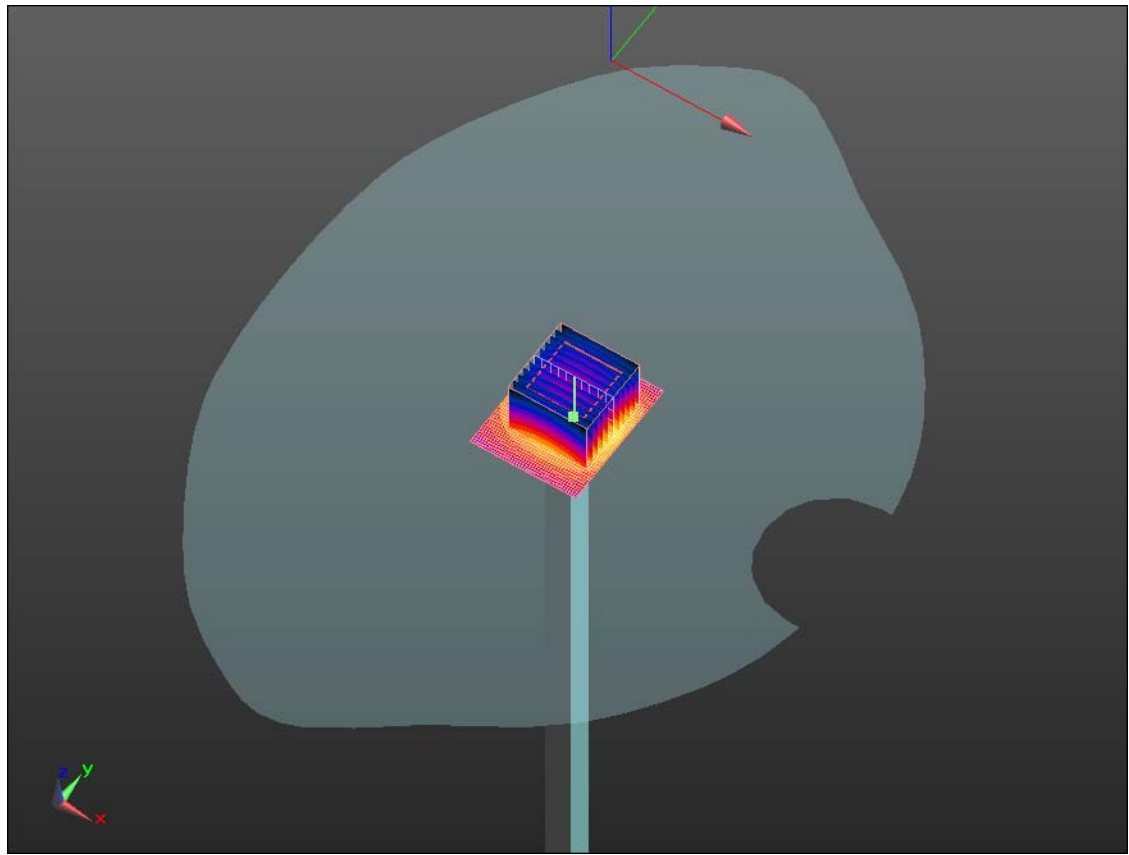
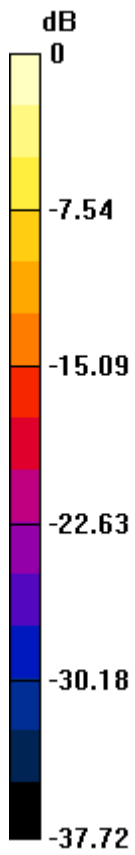
Author Data  
**Andrew Becker**

Dates of Test  
**June 28 – September 16, 2011**


Test Report No  
**RTS-5385-1108-74**

FCC ID:  
**L6AREC70UW**

IC ID  
**2503A-REC70UW**



0 dB = 159.7mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 9/16/2011 2:59:12 AM, Date/Time: 9/16/2011 3:01:53 AM

Test Laboratory: RIM Testing Services

## Dipole Validation\_5200 MHz\_09\_16\_11\_Amb\_Tem\_23.8 \_Liq\_Tem\_22.0C

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: CW; Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5200 MHz; Communication System PAR: 0 dB  
Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.841$  mho/m;  $\epsilon_r = 34.622$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.5, 4.5, 4.5); Calibrated: 11/18/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 178.2 mW/g

**System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan (3x3x2mm), dist=2mm 2 (11x11x12)/Cube 0:**  
Measurement grid: dx=3mm, dy=3mm, dz=2mm  
Reference Value = 196.2 V/m; Power Drift = -0.0092 dB  
Peak SAR (extrapolated) = 292.7 W/kg  
**SAR(1 g) = 77.3 mW/g; SAR(10 g) = 22.3 mW/g**  
Maximum value of SAR (measured) = 159.0 mW/g

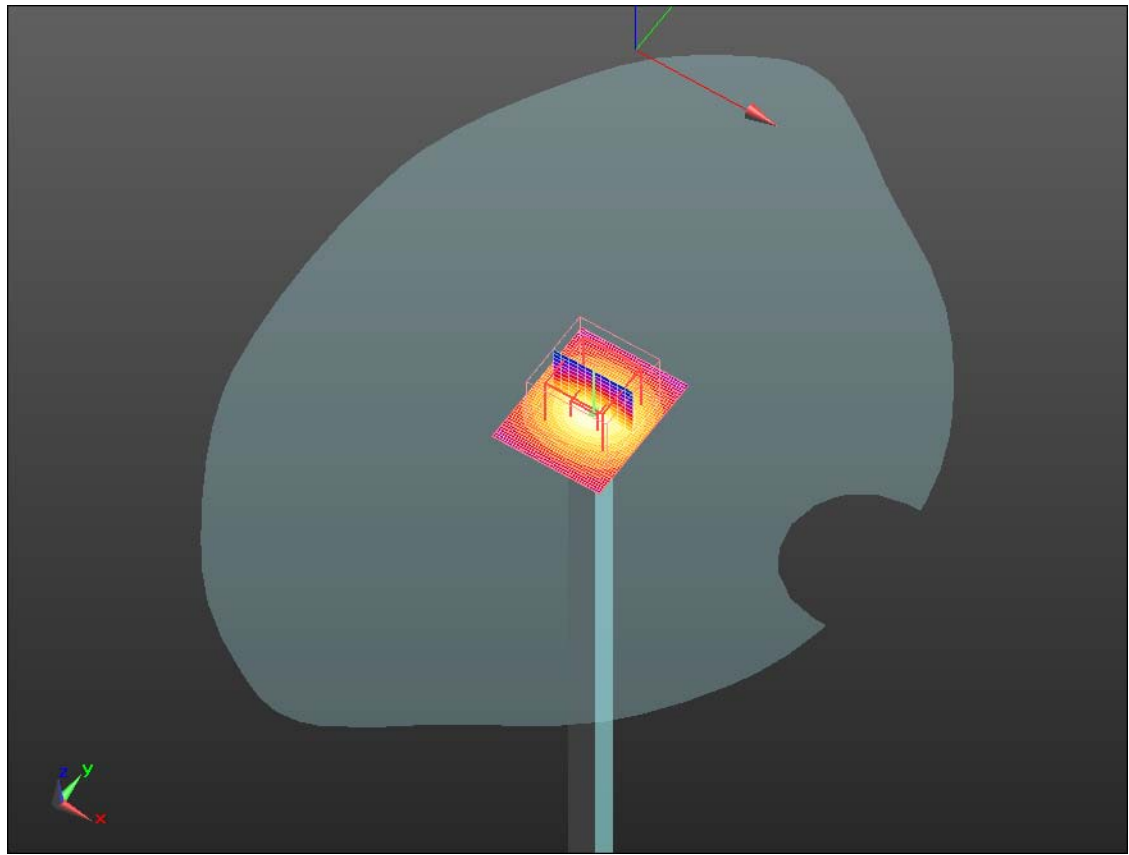
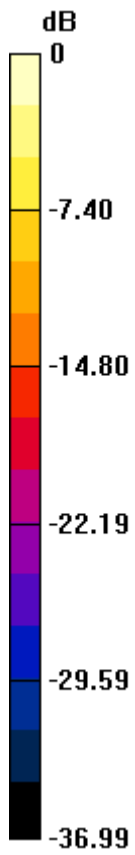
Author Data  
**Andrew Becker**

Dates of Test  
**June 28 – September 16, 2011**


Test Report No  
**RTS-5385-1108-74**

FCC ID:  
**L6AREC70UW**

IC ID  
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0 dB = 159.0mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/17/2011 3:09:31 PM, Date/Time: 8/17/2011 4:06:56 PM

Test Laboratory: RIM Testing Services

## Dipole Validation\_5500 MHz\_08\_17\_11

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1033**

Communication System: CW-5GHz; Frequency: 5500 MHz; Communication System

PAR: 0 dB

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.151$  mho/m;  $\epsilon_r = 35.445$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.25, 4.25, 4.25); Calibrated: 11/18/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**System Performance Check with D5GHzV2 Dipole/d=10mm,**

**Pin=1000mW, f=5500 MHz/Area Scan (91x91x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 183.9 mW/g

**System Performance Check with D5GHzV2 Dipole/d=10mm,**

**Pin=1000mW, f=5500 MHz/Zoom Scan (3x3x2mm), dist=2mm**

**(11x11x11)/Cube 0:** Measurement grid: dx=3mm, dy=3mm, dz=2mm

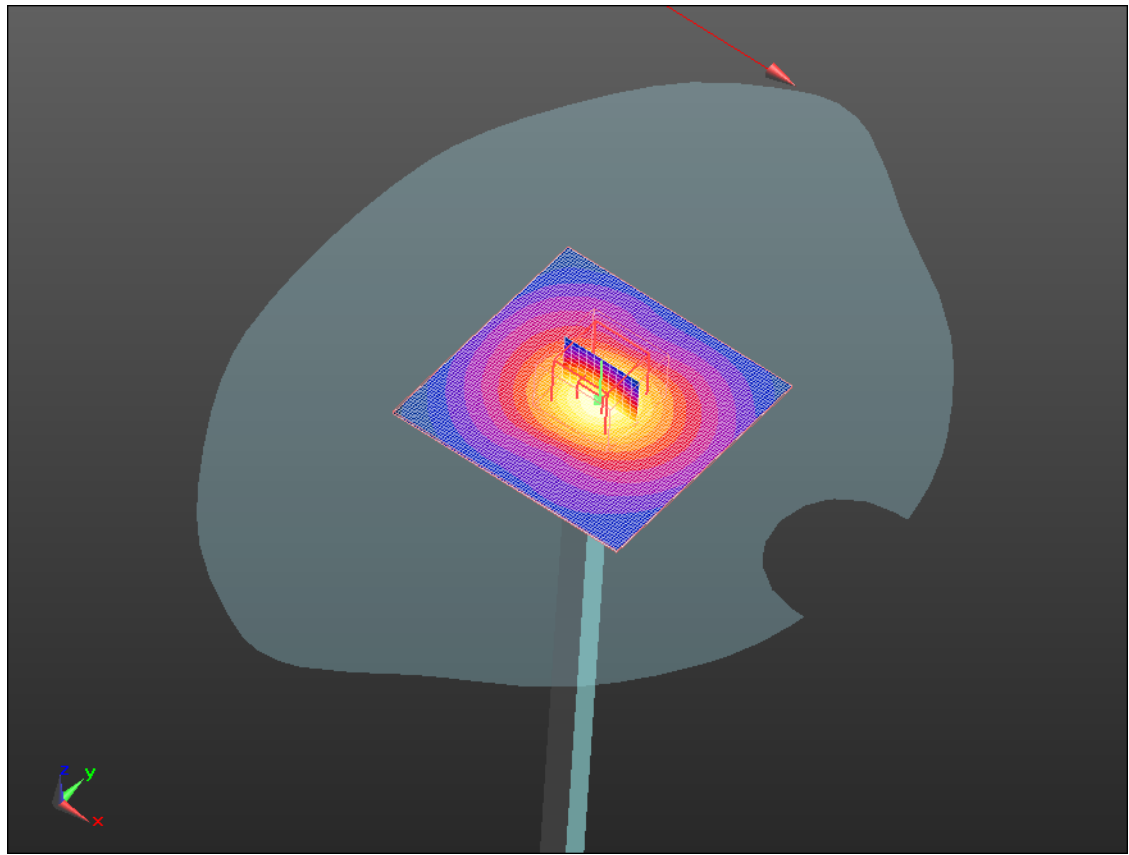
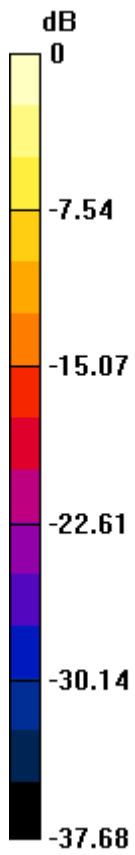
Reference Value = 199.5 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = 354.8 W/kg


**SAR(1 g) = 85.3 mW/g; SAR(10 g) = 24.4 mW/g**

Maximum value of SAR (measured) = 174.8 mW/g





0 dB = 174.8mW/g

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Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 9/16/2011 4:10:56 AM, Date/Time: 9/16/2011 4:19:42 AM

Test Laboratory: RIM Testing Services

## Dipole Validation\_5500\_MHz\_09\_16\_11\_Amb\_Tem\_23.8 \_Liq\_Tem\_22.0C

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: CW-5GHz; Frequency: 5500 MHz; Communication System

PAR: 0 dB

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.135$  mho/m;  $\epsilon_r = 34.312$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.25, 4.25, 4.25); Calibrated: 11/18/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**System Performance Check with D5GHzV2 Dipole/d=10mm,**

**Pin=1000mW, f=5500 MHz/Area Scan (91x91x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 154.7 mW/g

**System Performance Check with D5GHzV2 Dipole/d=10mm,**

**Pin=1000mW, f=5500 MHz/Zoom Scan (3x3x2mm), dist=2mm**

**(11x11x11)/Cube 0:** Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 186.0 V/m; Power Drift = -0.0029 dB

Peak SAR (extrapolated) = 478.0 W/kg

**SAR(1 g) = 88.5 mW/g; SAR(10 g) = 24.4 mW/g**

Maximum value of SAR (measured) = 87.411 mW/g

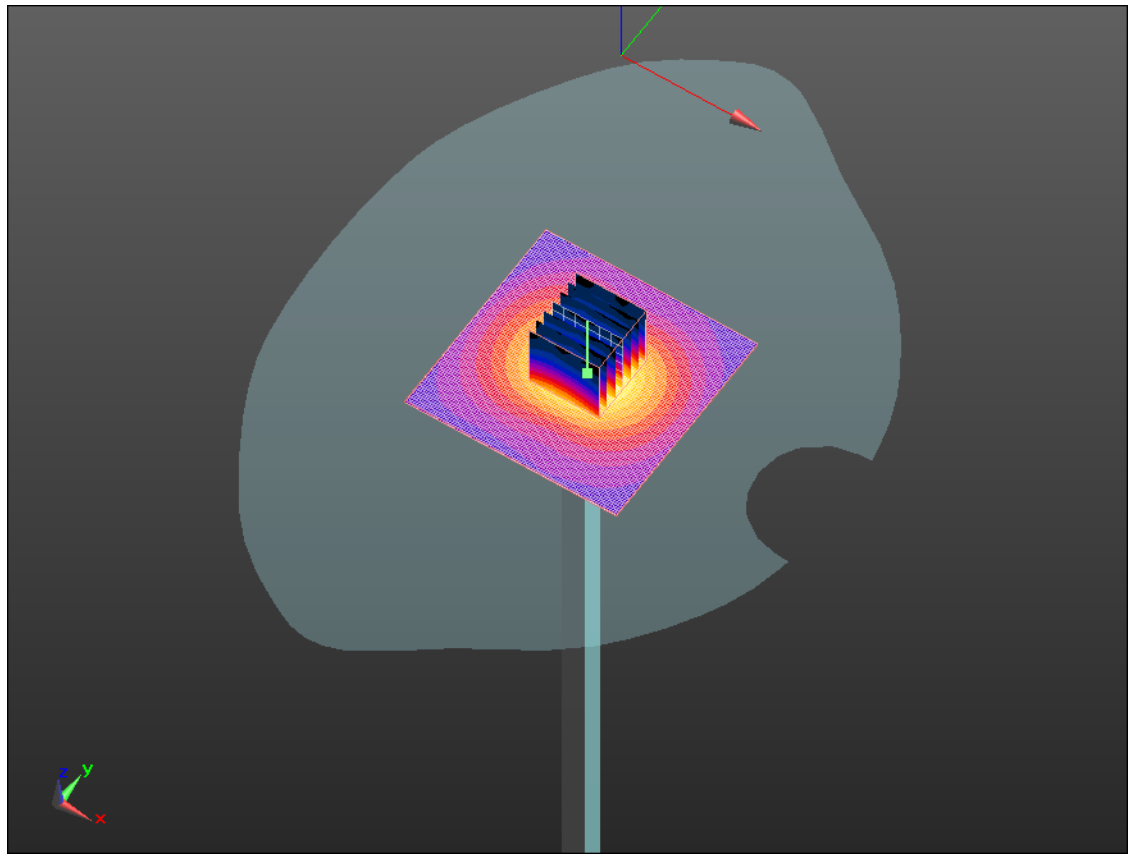
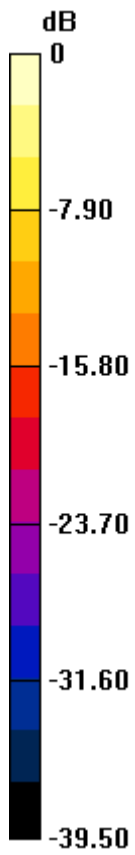
Author Data  
**Andrew Becker**

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**June 28 – September 16, 2011**


Test Report No  
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0 dB = 87.410mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	June 28 – September 16, 2011	RTS-5385-1108-74	L6AREC70UW	2503A-REC70UW

Date/Time: 8/17/2011 4:51:18 PM, Date/Time: 8/17/2011 5:16:16 PM

Test Laboratory: RIM Testing Services

## Dipole Validation\_5800 MHz\_08\_17\_11

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1033**

Communication System: CW-5GHz; Frequency: 5800 MHz; Communication System

PAR: 0 dB

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.3$  mho/m;  $\epsilon_r = 33.922$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/1528)

DASY5 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.98, 3.98, 3.98); Calibrated: 11/18/2010
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**System Performance Check with D5GHzV2 Dipole/d=10mm,**

**Pin=1000mW, f=5800 MHz/Area Scan (41x51x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 203.7 mW/g

**System Performance Check with D5GHzV2 Dipole/d=10mm,**

**Pin=1000mW, f=5800 MHz/Zoom Scan (3x3x2mm), dist=2mm**

**(11x11x11)/Cube 0:** Measurement grid: dx=3mm, dy=3mm, dz=2mm

Reference Value = 203.4 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 331.9 W/kg

**SAR(1 g) = 81.4 mW/g; SAR(10 g) = 23.1 mW/g**

Maximum value of SAR (measured) = 174.3 mW/g

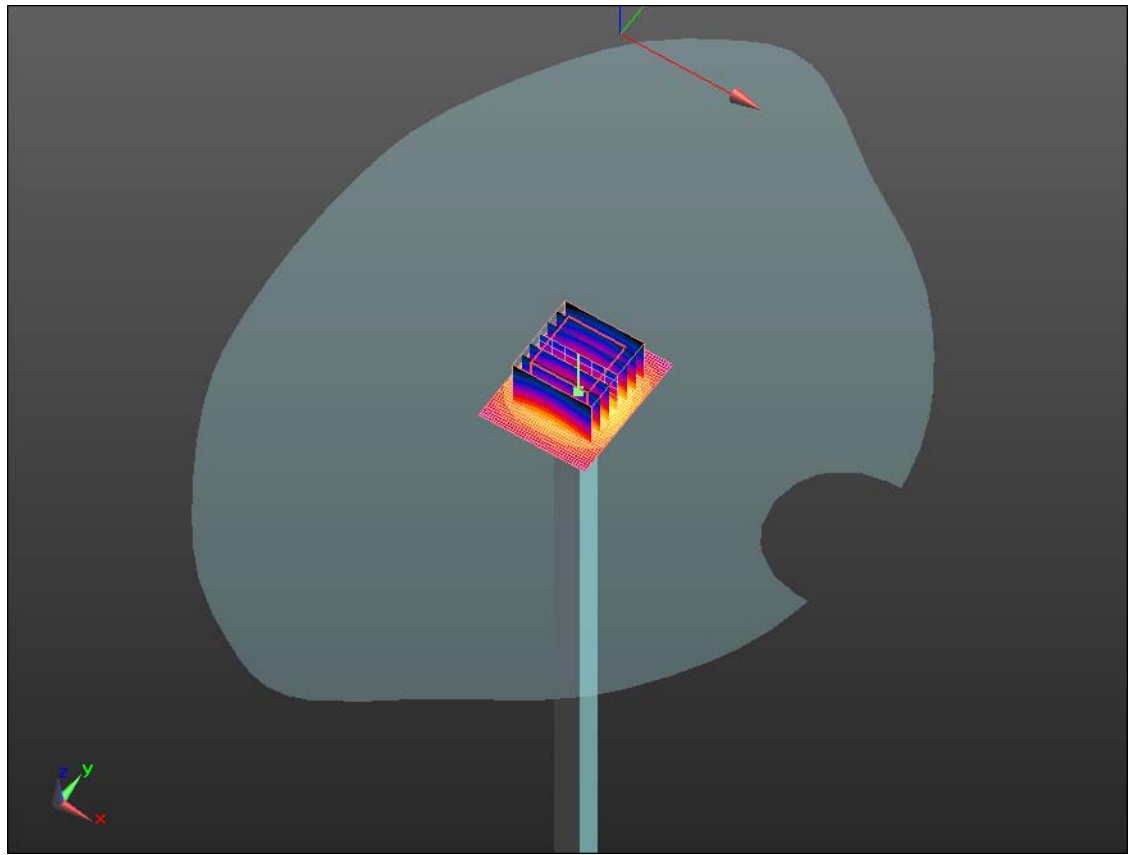
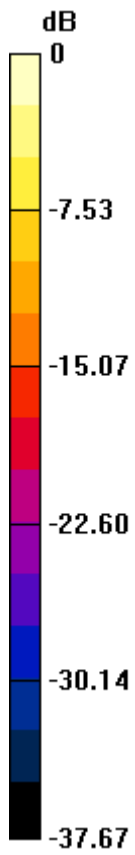
Author Data  
**Andrew Becker**

Dates of Test  
**June 28 – September 16, 2011**

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0 dB = 174.3mW/g