

<b>RTS</b> <b>RIM Testing Services</b>	Document <b>Appendix for the BlackBerry ® Smartphone Model RBT71UW</b> <b>SAR Report</b>		Page <b>1(25)</b>
Author Data <b>Shahriar Ninad</b>	Dates of Test <b>Mar 06- Apr 22, 2008</b>	Test Report No <b>RTS-0552-0804-11</b>	FCC ID: <b>L6ARBT70UW</b>

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

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Date/Time: 06/03/2008 2:47:50 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_835MHz\\_Amb\\_Tem\\_23\\_2\\_Liq\\_Tem\\_21\\_8\\_C.da4](#)

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

**Program Name: System Performance Check at 835 MHz**

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.893 \text{ mho/m}$ ;  $\epsilon_r = 39.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.41, 6.41, 6.41); Calibrated: 12/11/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=15mm, Pin=1000mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5.0\text{mm}$

Reference Value = 105.9 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 12.7 W/kg

**SAR(1 g) = 8.63 mW/g; SAR(10 g) = 5.67 mW/g**

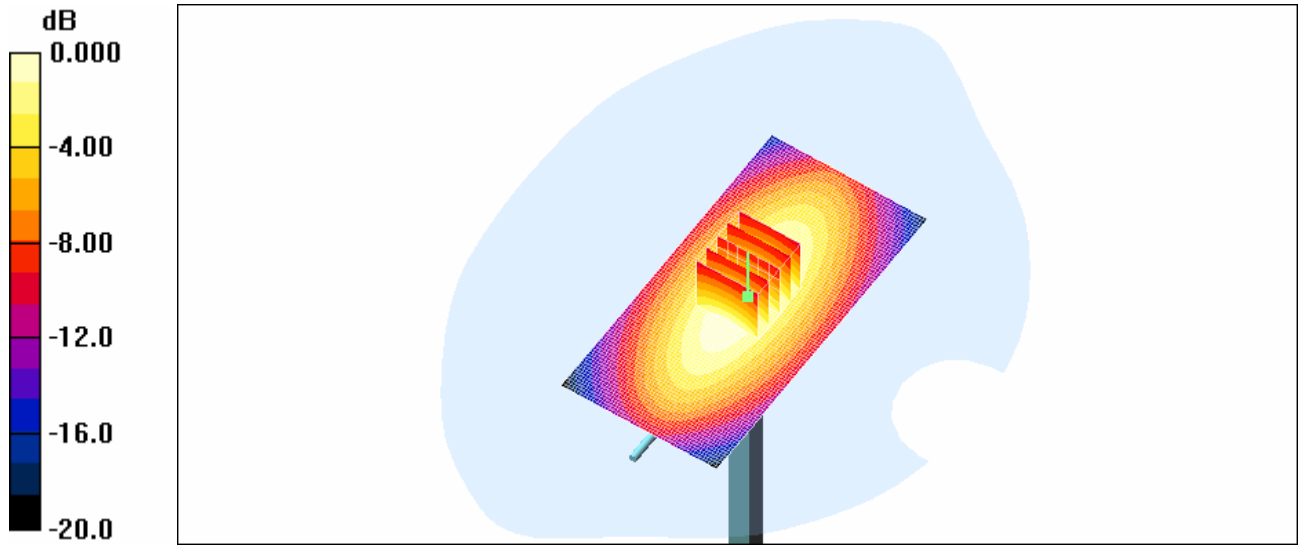
Maximum value of SAR (measured) = 9.35 mW/g

**d=15mm, Pin=1000mW/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) = 9.31 mW/g

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0 dB = 9.31mW/g

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Date/Time: 10/03/2008 9:50:54 AM

Test Laboratory: RTS

File Name: [DipoleValidation\\_835MHz\\_Amb\\_Tem\\_23\\_3\\_Liq\\_Tem\\_22\\_3\\_C.da4](#)

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

**Program Name: System Performance Check at 835 MHz**

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.873 \text{ mho/m}$ ;  $\epsilon_r = 39.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.41, 6.41, 6.41); Calibrated: 12/11/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=15mm, Pin=1000mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5.0\text{mm}$

Reference Value = 107.5 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 12.5 W/kg

**SAR(1 g) = 8.57 mW/g; SAR(10 g) = 5.63 mW/g**

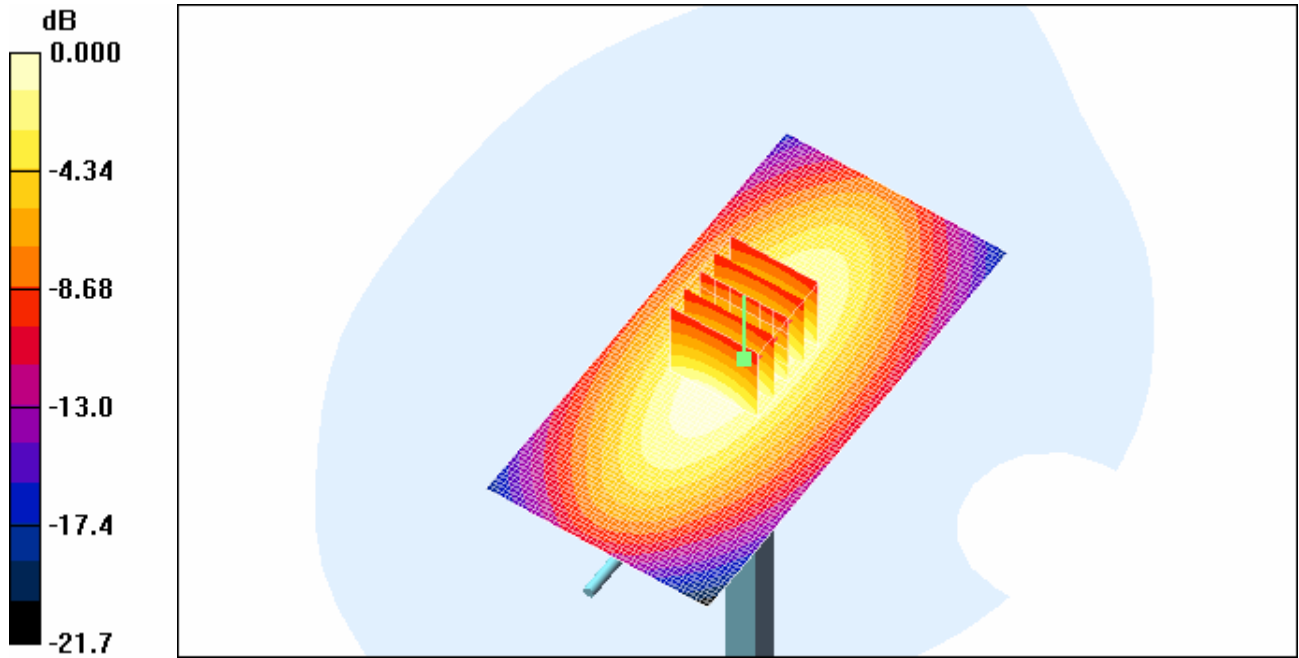
Maximum value of SAR (measured) = 9.27 mW/g

**d=15mm, Pin=1000mW/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) = 9.26 mW/g

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0 dB = 9.26mW/g

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Date/Time: 21/04/2008 10:39:52 AM

Test Laboratory: RTS

File Name: [DipoleValidation\\_835MHz\\_Amb\\_Tem\\_23\\_0\\_Liq\\_Tem\\_21\\_8\\_C.da4](#)

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

**Program Name: System Performance Check at 835 MHz**

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

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.861 \text{ mho/m}$ ;  $\epsilon_r = 40$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.28, 6.28, 6.28); Calibrated: 11/03/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=15mm, Pin=1000mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5.0\text{mm}$

Reference Value = 108.4 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 12.7 W/kg

**SAR(1 g) = 8.68 mW/g; SAR(10 g) = 5.71 mW/g**

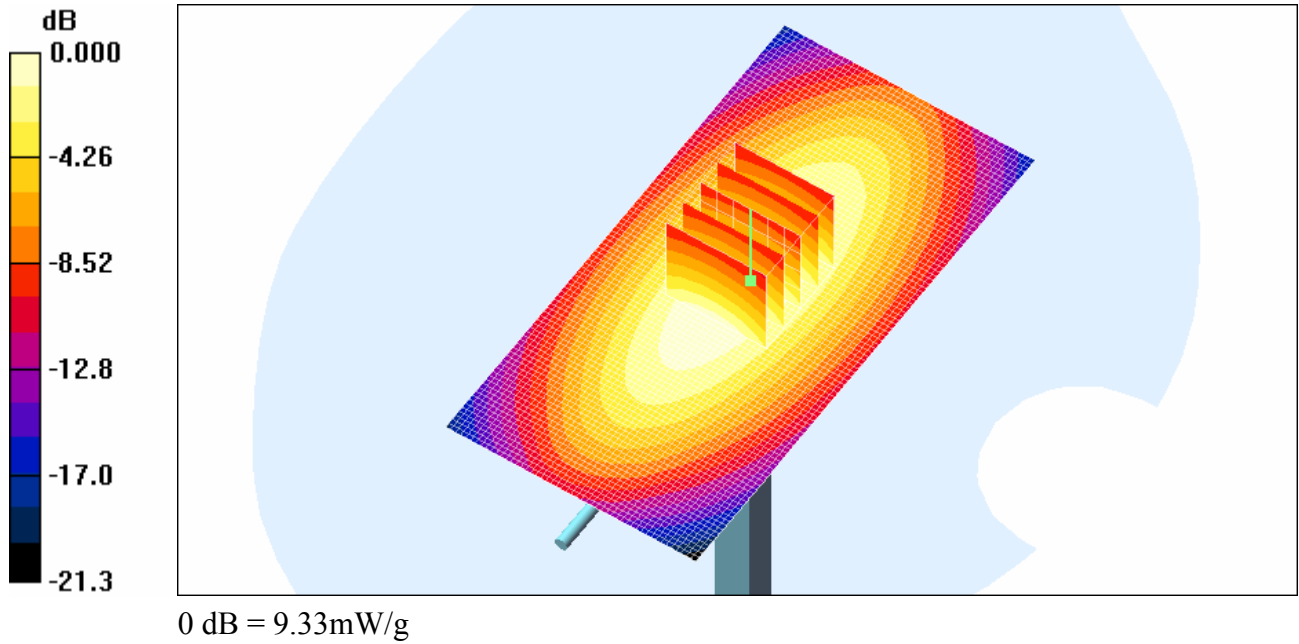
Maximum value of SAR (measured) = 9.36 mW/g

**d=15mm, Pin=1000mW/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) = 9.33 mW/g

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Date/Time: 07/04/2008 5:08:45 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_23\\_0\\_Liq\\_Tem\\_22\\_1\\_C.da4](#)

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**  
**Program Name: System Performance Check at 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.24, 5.24, 5.24); Calibrated: 12/11/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

Reference Value = 183.2 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 72.6 W/kg

**SAR(1 g) = 40.1 mW/g; SAR(10 g) = 20.7 mW/g**

Maximum value of SAR (measured) = 45.3 mW/g

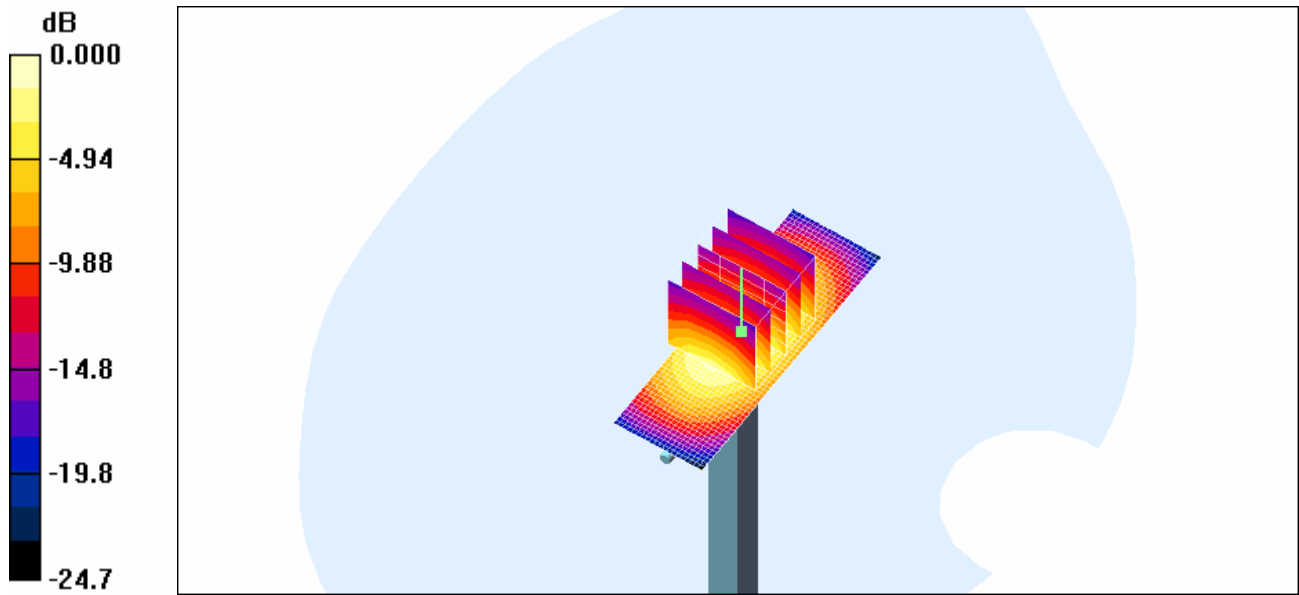
**d=15mm, Pin=1000mW/Area Scan (21x61x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 46.1 mW/g



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0 dB = 46.1mW/g

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Date/Time: 08/04/2008 7:18:33 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_23\\_7\\_Liq\\_Tem\\_22\\_0\\_C.da4](#)

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**  
**Program Name: System Performance Check at 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.24, 5.24, 5.24); Calibrated: 12/11/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

Reference Value = 178.3 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 68.6 W/kg

**SAR(1 g) = 37.7 mW/g; SAR(10 g) = 19.5 mW/g**

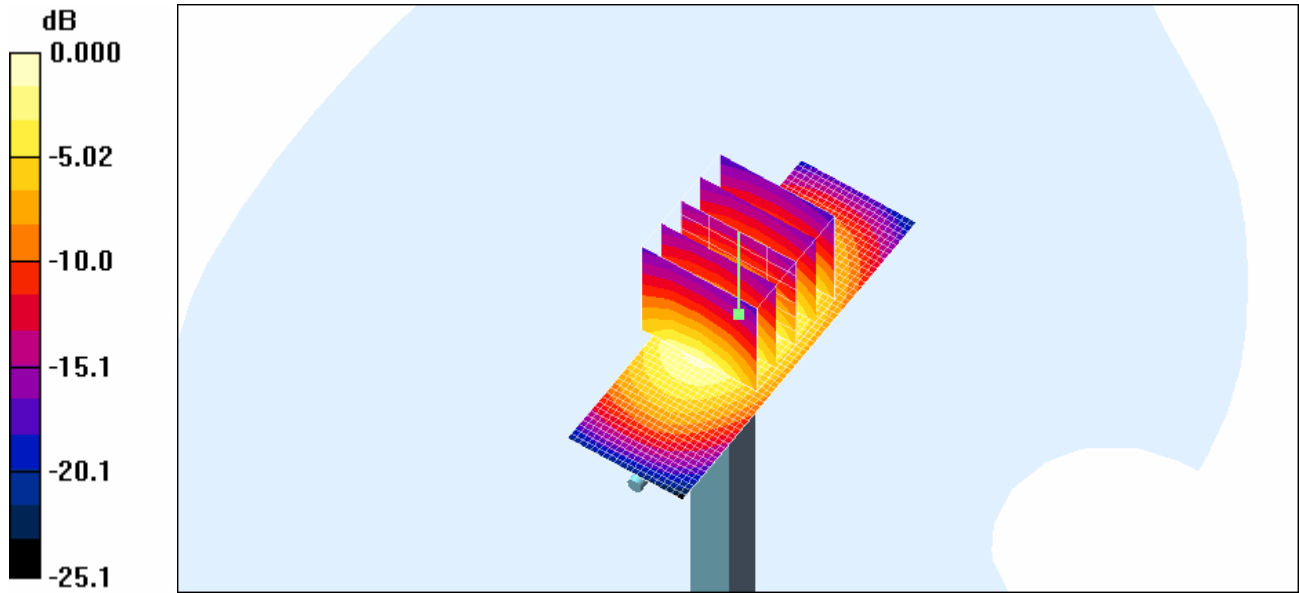
Maximum value of SAR (measured) = 42.7 mW/g

**d=15mm, Pin=1000mW/Area Scan (21x61x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 43.0 mW/g

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0 dB = 43.0mW/g

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Date/Time: 15/04/2008 4:51:15 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_23\\_9\\_Liq\\_Tem\\_22\\_3\\_C.da4](#)

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**  
**Program Name: System Performance Check at 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.19, 5.19, 5.19); Calibrated: 11/03/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

Reference Value = 175.9 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 67.2 W/kg

**SAR(1 g) = 36.8 mW/g; SAR(10 g) = 19.1 mW/g**

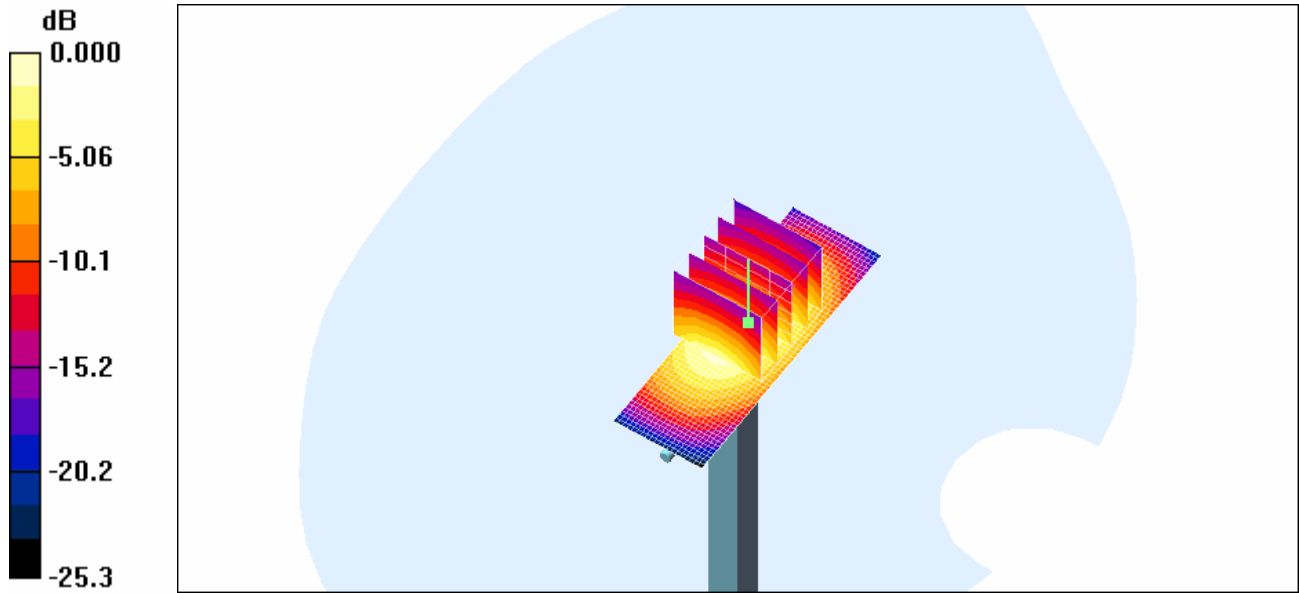
Maximum value of SAR (measured) = 41.4 mW/g

**d=15mm, Pin=1000mW/Area Scan (21x61x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 42.1 mW/g

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0 dB = 42.1mW/g

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Date/Time: 11/03/2008 7:11:00 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_2450MHz\\_Amb\\_Tem\\_24\\_4\\_Liq\\_Tem\\_23\\_4\\_C.da4](#)

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747**  
**Program Name: Dipole Validation (2450 MHz)**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

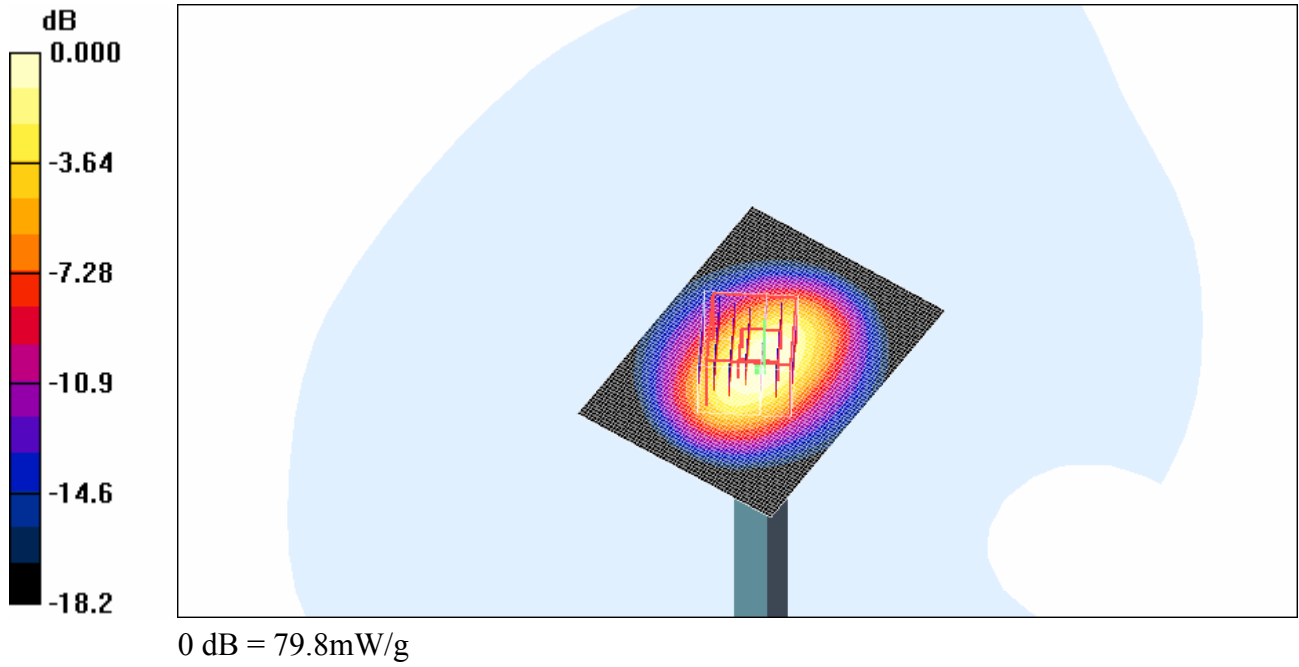
- Probe: EX3DV4 - SN3592; ConvF(6.65, 6.65, 6.65); Calibrated: 06/11/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Validation/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 82.3 mW/g

**Validation/Zoom Scan (7x7x9) (7x7x5)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 206.7 V/m; Power Drift = 0.048 dB  
Peak SAR (extrapolated) = 109.5 W/kg  
**SAR(1 g) = 52.1 mW/g; SAR(10 g) = 23 mW/g**

Maximum value of SAR (measured) = 79.8 mW/g

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			FCC ID: <b>L6ARBT70UW</b>



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Date/Time: 25/03/2008 8:43:57 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_2450MHz\\_Amb\\_Tem\\_24\\_0\\_Liq\\_Tem\\_23\\_0\\_C.da4](#)

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747**  
**Program Name: Dipole Validation (2450 MHz)**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(6.65, 6.65, 6.65); Calibrated: 06/11/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

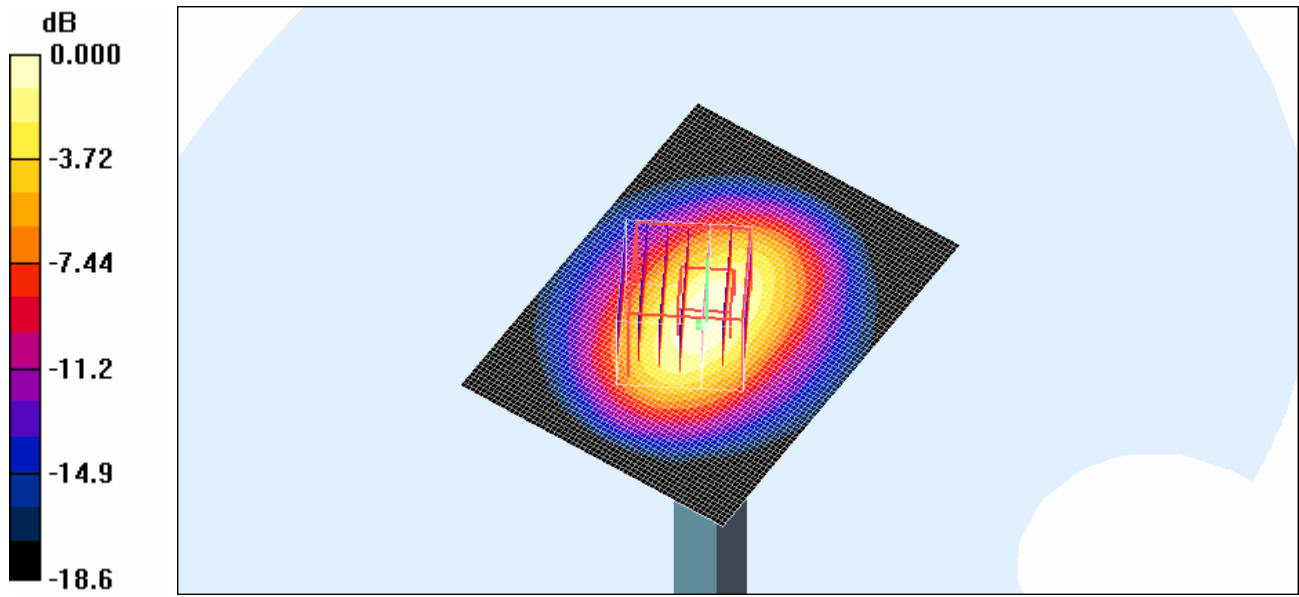
**Validation/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 78.4 mW/g

**Validation/Zoom Scan (7x7x9) (7x7x5)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 208.4 V/m; Power Drift = -0.040 dB  
Peak SAR (extrapolated) = 112.2 W/kg  
**SAR(1 g) = 53.4 mW/g; SAR(10 g) = 23.1 mW/g**

Maximum value of SAR (measured) = 82.5 mW/g



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0 dB = 82.5mW/g

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Date/Time: 14/03/2008 3:37:59 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_5200MHz\\_Amb\\_Tem\\_23\\_9\\_Liq\\_Tem\\_22\\_5\\_C.da4](#)

**DUT: Dipole 5000 MHz; Type: D5000V2; Serial: D5000V2 - SN:1033**  
**Program Name: Dipole Validation (5200 MHz)**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.77$  mho/m;  $\epsilon_r = 34.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.77, 4.77, 4.77); Calibrated: 06/11/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

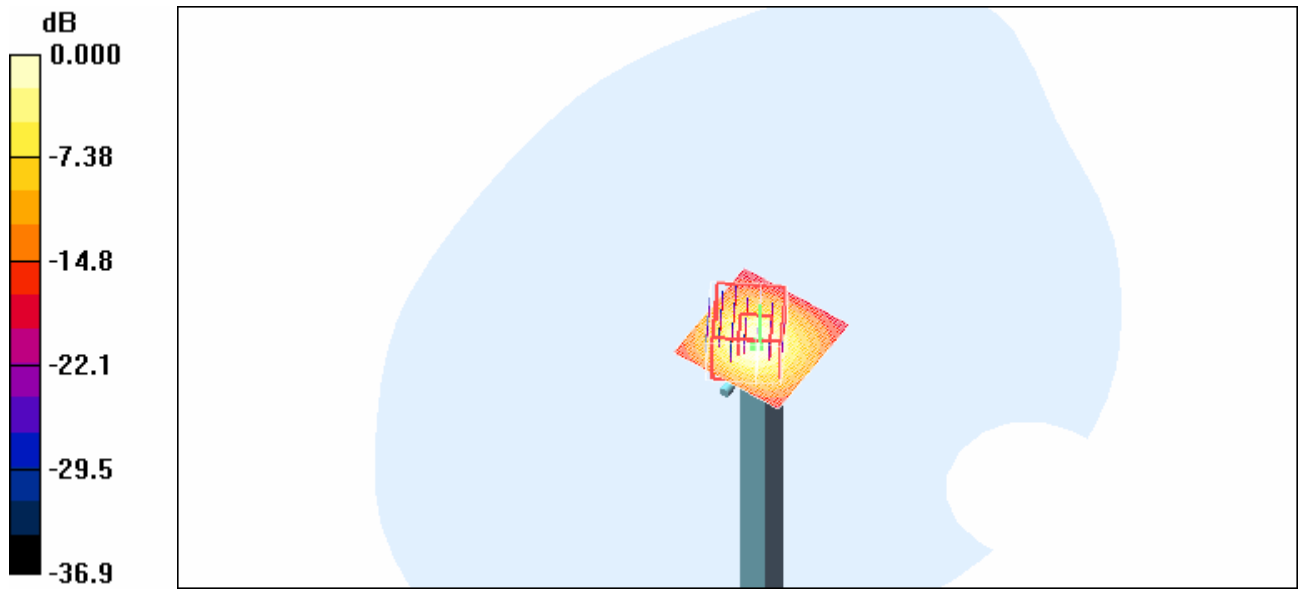
**Validation/Area Scan (41x41x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 149.5 mW/g

**Validation/Zoom Scan (7x7x9) (7x7x5)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 180.7 V/m; Power Drift = -0.038 dB  
Peak SAR (extrapolated) = 273.4 W/kg  
**SAR(1 g) = 69.4 mW/g; SAR(10 g) = 18.9 mW/g**

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (measured) = 140.7 mW/g

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0 dB = 140.7mW/g

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Date/Time: 17/03/2008 9:30:39 AM

Test Laboratory: RTS

File Name:

[DipoleValidation\\_5200MHz\\_Amb\\_Tem\\_23\\_2\\_Liq\\_Tem\\_22\\_0C\\_03\\_17\\_08.da4](#)

**DUT: Dipole 5000 MHz; Type: D5000V2; Serial: D5000V2 - SN:1033**  
**Program Name: Dipole Validation (5200 MHz)**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.77$  mho/m;  $\epsilon_r = 34.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.77, 4.77, 4.77); Calibrated: 06/11/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

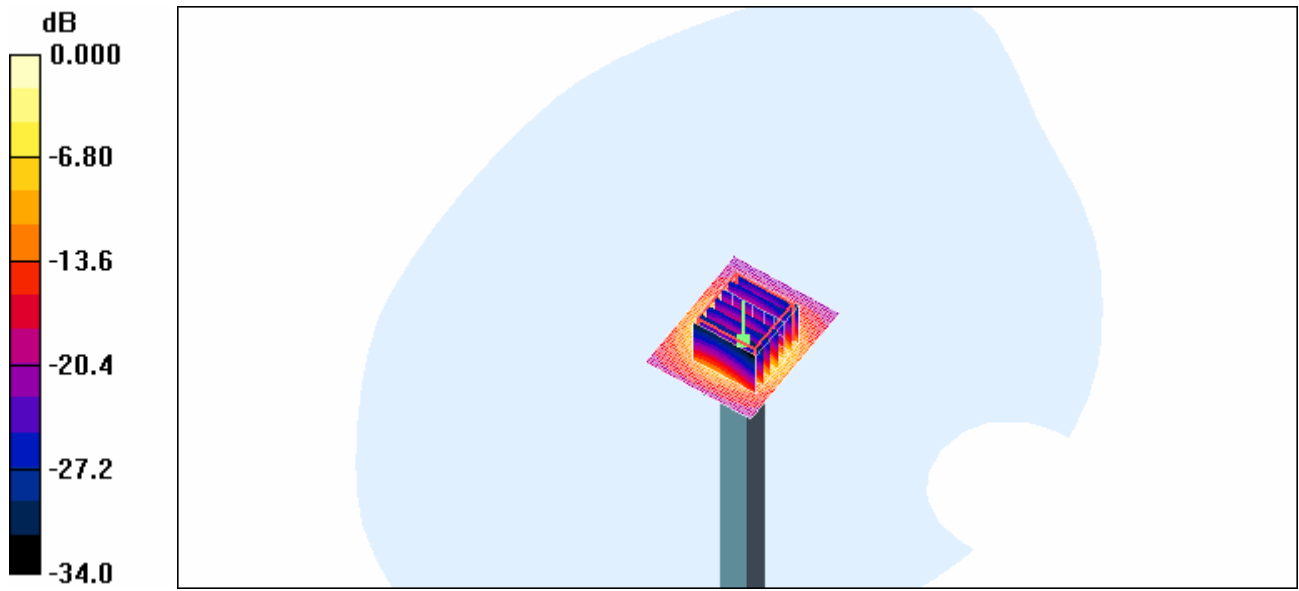
**Validation/Area Scan (41x51x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 183.3 mW/g

**Validation/Zoom Scan (7x7x9) (7x7x5)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 195.3 V/m; Power Drift = 0.036 dB  
Peak SAR (extrapolated) = 303.0 W/kg  
**SAR(1 g) = 78.7 mW/g; SAR(10 g) = 22 mW/g**

**Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.**

Maximum value of SAR (measured) = 157.3 mW/g

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0 dB = 157.3mW/g

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	Author Data <b>Shahriar Ninad</b>	Dates of Test <b>Mar 06- Apr 22, 2008</b>	Test Report No <b>RTS-0552-0804-11</b>

Date/Time: 18/03/2008 1:34:10 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_5500MHz\\_Amb\\_Tem\\_23\\_9\\_Liq\\_Tem\\_22\\_7C.da4](#)

**DUT: Dipole 5000 MHz; Type: D5000V2; Serial: D5000V2 - SN:1033**  
**Program Name: Dipole Validation (5500 MHz)**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.2$  mho/m;  $\epsilon_r = 34.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

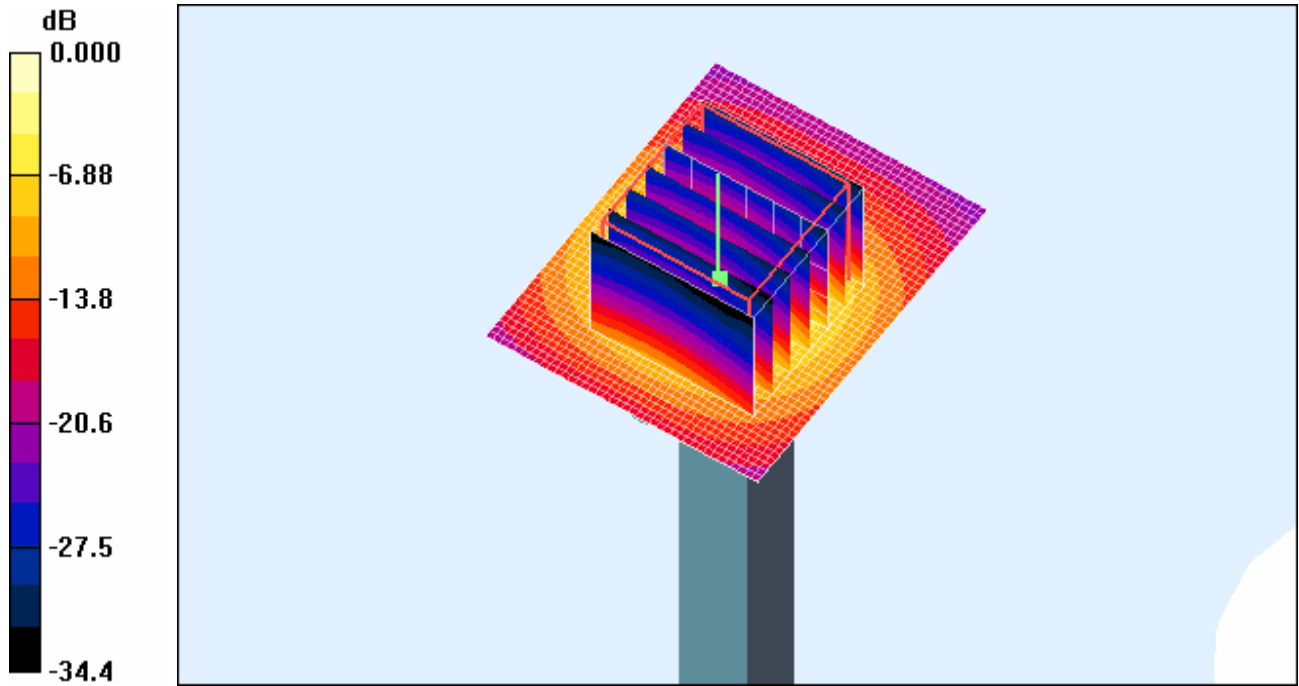
- Probe: EX3DV4 - SN3592; ConvF(4.54, 4.54, 4.54); Calibrated: 06/11/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Validation/Area Scan (41x51x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 178.0 mW/g

**Validation/Zoom Scan (7x7x9) (7x7x5)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 182.1 V/m; Power Drift = 0.042 dB  
Peak SAR (extrapolated) = 321.4 W/kg  
**SAR(1 g) = 78 mW/g; SAR(10 g) = 21.7 mW/g**

Maximum value of SAR (measured) = 159.5 mW/g

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0 dB = 159.5mW/g

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	Author Data <b>Shahriar Ninad</b>	Dates of Test <b>Mar 06- Apr 22, 2008</b>	Test Report No <b>RTS-0552-0804-11</b>

Date/Time: 19/03/2008 2:29:54 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_5800MHz\\_Amb\\_Tem\\_24\\_2\\_Liq\\_Tem\\_22\\_4C.da4](#)

**DUT: Dipole 5000 MHz; Type: D5000V2; Serial: D5000V2 - SN:1033**  
**Program Name: Dipole Validation (5500 MHz)**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.52$  mho/m;  $\epsilon_r = 34.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.25, 4.25, 4.25); Calibrated: 06/11/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/01/2008
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

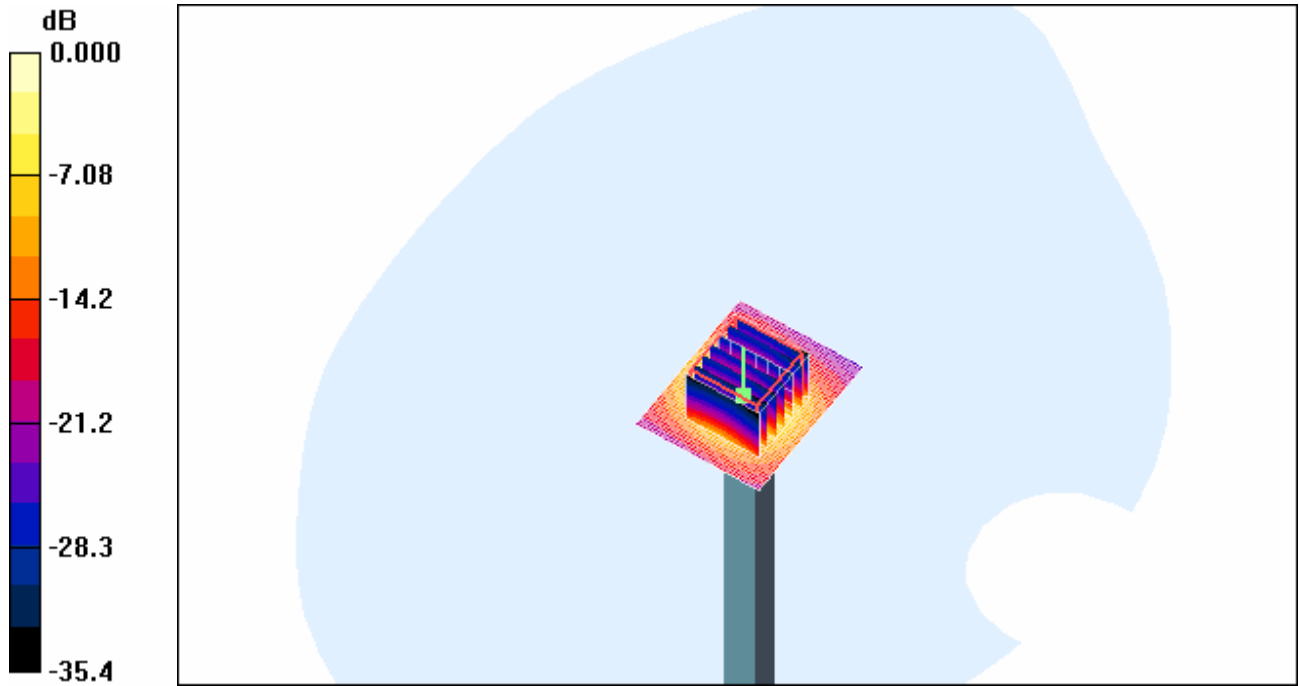
**Validation/Area Scan (41x51x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 184.9 mW/g

**Validation/Zoom Scan (7x7x9) (7x7x5)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 186.0 V/m; Power Drift = -0.137 dB  
Peak SAR (extrapolated) = 325.2 W/kg  
**SAR(1 g) = 77.5 mW/g; SAR(10 g) = 21.4 mW/g**

Maximum value of SAR (measured) = 161.8 mW/g



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0 dB = 161.8mW/g