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

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<b>Andrew Becker</b>	<b>July 15-August 20, 2009</b>	<b>RTS-1689-0908-30</b>	<b>L6ARCM70UW</b>

Date/Time: 21/07/2009 10:33:40 AM

Test Laboratory: RTS

File Name: [DipoleValidation\\_835MHz\\_Amb\\_Tem\\_23.3\\_Liq\\_Tem\\_22.2\\_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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.878 \text{ mho/m}$ ;  $\epsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

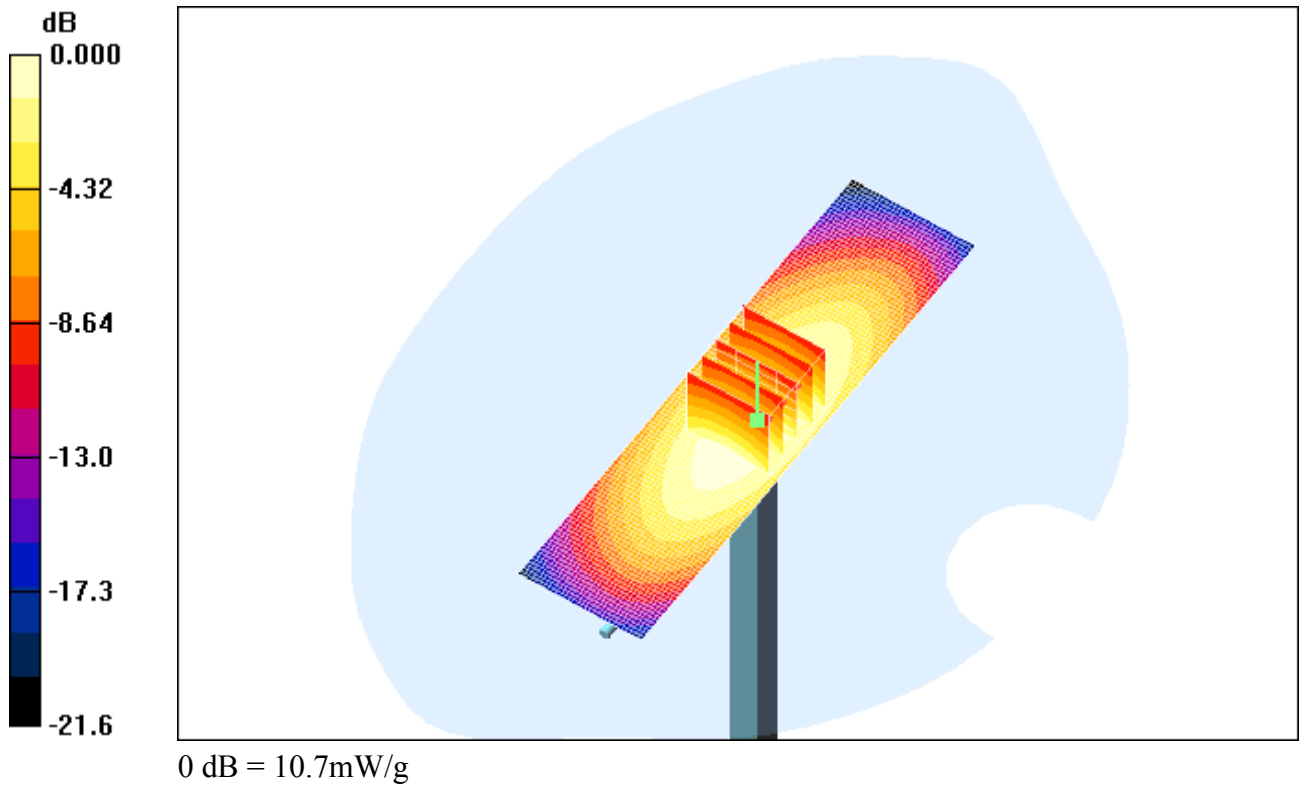
DASY4 Configuration:


- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 113.7 V/m; Power Drift = 0.031 dB  
Peak SAR (extrapolated) = 14.5 W/kg  
**SAR(1 g) = 9.9 mW/g; SAR(10 g) = 6.5 mW/g**  
Maximum value of SAR (measured) = 10.7 mW/g

**d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 10.7 mW/g

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Date/Time: 18/08/2009 10:10:13 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_835MHz\\_Amb\\_Tem\\_23.3\\_Liq\\_Tem\\_22.6\\_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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.903 \text{ mho/m}$ ;  $\epsilon_r = 42.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

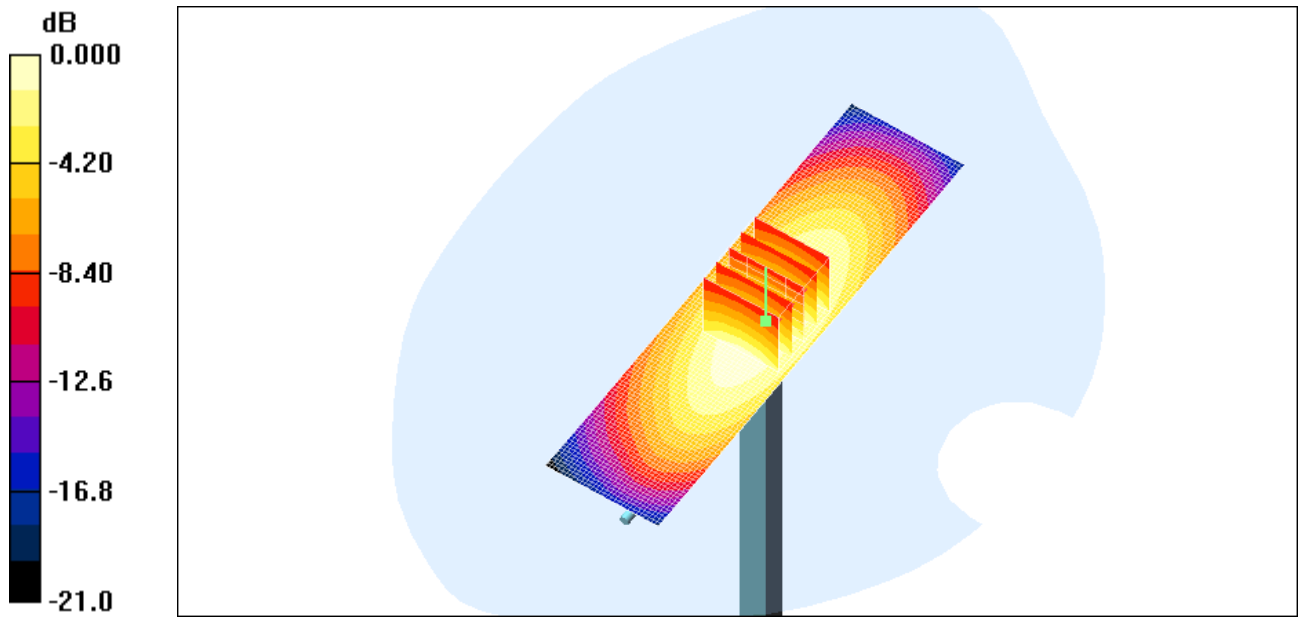
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 107.8 V/m; Power Drift = -0.051 dB  
Peak SAR (extrapolated) = 13.2 W/kg  
**SAR(1 g) = 9.1 mW/g; SAR(10 g) = 6.01 mW/g**  
Maximum value of SAR (measured) = 9.82 mW/g

**d=15mm, Pin=1000mW/Area Scan (31x121x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 9.87 mW/g

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0 dB = 9.87mW/g

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Date/Time: 15/07/2009 3:56:40 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_22.8\\_Liq\\_Tem\\_22.2\\_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:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 39.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

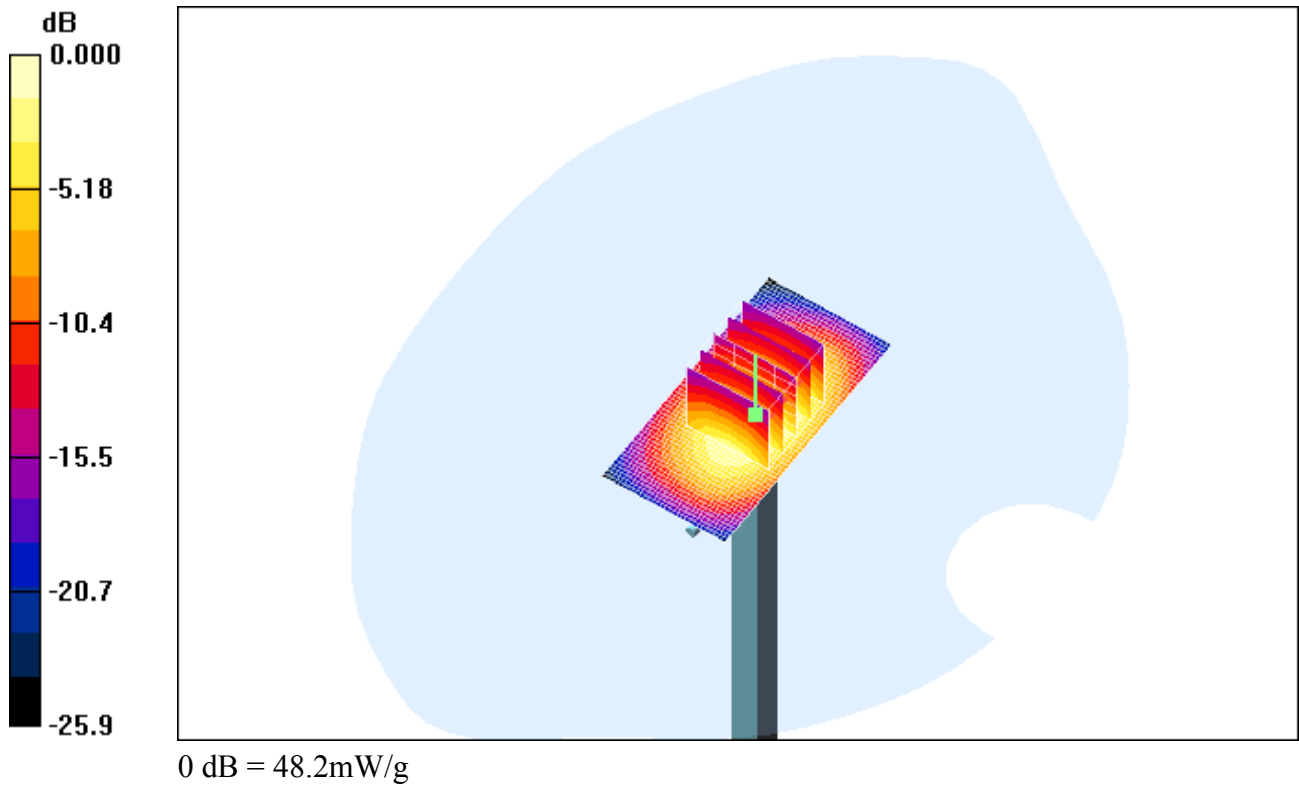
DASY4 Configuration:


- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 191.7 V/m; Power Drift = 0.039 dB  
Peak SAR (extrapolated) = 72.1 W/kg  
**SAR(1 g) = 42.2 mW/g; SAR(10 g) = 22.3 mW/g**  
Maximum value of SAR (measured) = 47.4 mW/g

**d=15mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 48.2 mW/g

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Date/Time: 11/08/2009 4:38:04 PM

Test Laboratory: RTS

File Name:

[DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_23.1\\_Liq\\_Tem\\_22.4\\_C\\_08\\_11\\_09.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;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 175.4 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 57.1 W/kg

**SAR(1 g) = 36 mW/g; SAR(10 g) = 19.3 mW/g**


Maximum value of SAR (measured) = 41.3 mW/g

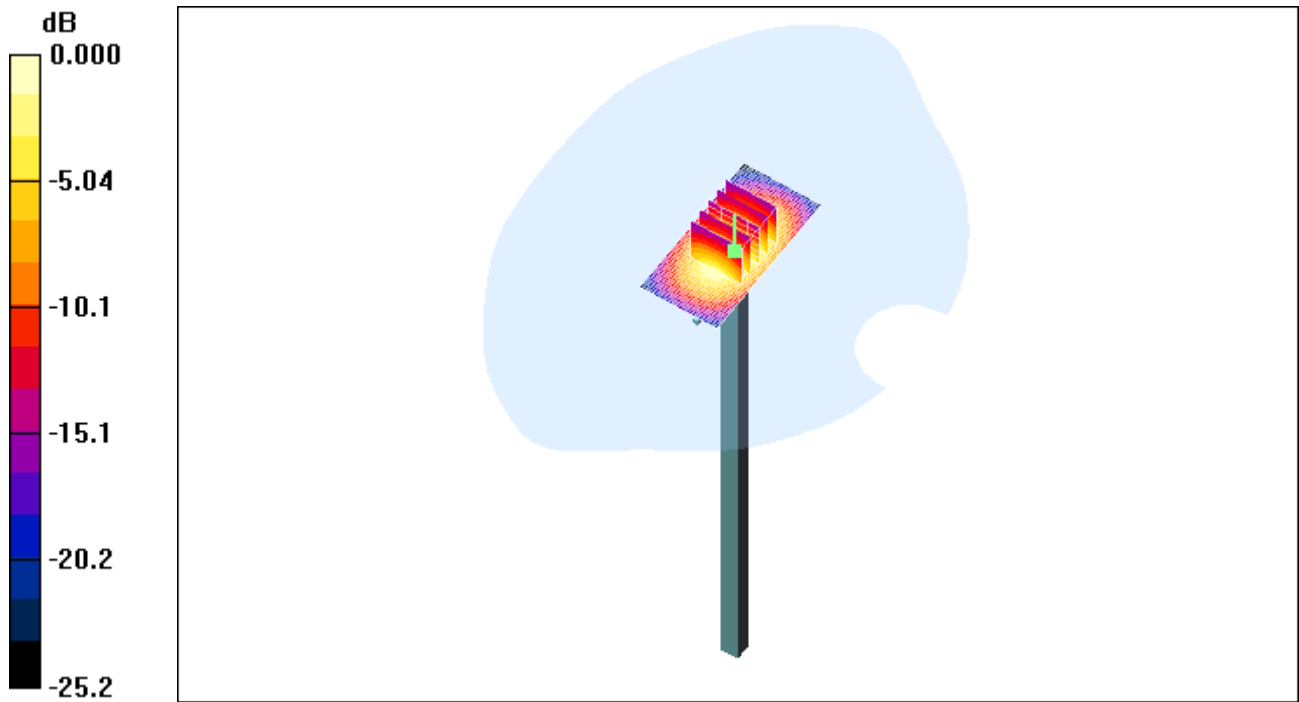
**d=15mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid: dx=15mm,

dy=15mm


Maximum value of SAR (interpolated) = 42.0 mW/g



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0 dB = 42.0mW/g

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Date/Time: 12/08/2009 11:16:27 PM

Test Laboratory: RTS

File Name: [DipoleValidation\\_1900MHz\\_Amb\\_Tem\\_23.1\\_Liq\\_Tem\\_22.8\\_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;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

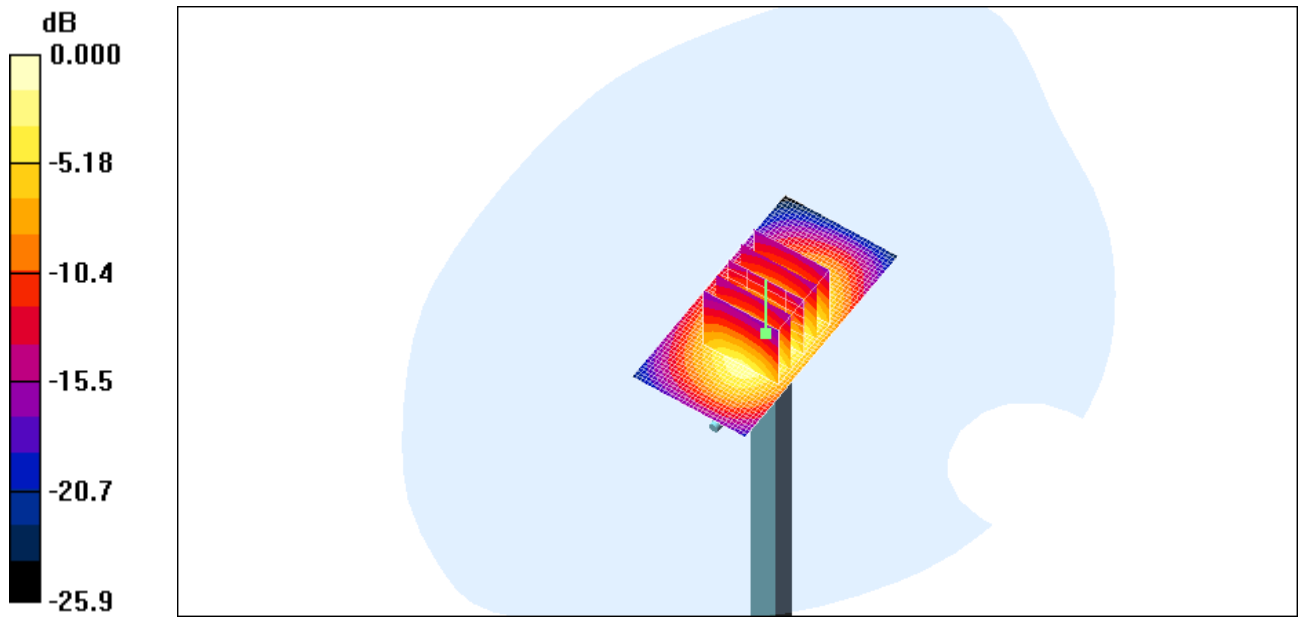
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 190.0 V/m; Power Drift = -0.078 dB  
Peak SAR (extrapolated) = 70.7 W/kg  
**SAR(1 g) = 41.3 mW/g; SAR(10 g) = 21.9 mW/g**  
Maximum value of SAR (measured) = 46.5 mW/g

**d=15mm, Pin=1000mW/Area Scan (31x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 48.5 mW/g

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0 dB = 48.5mW/g

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Date/Time: 19/08/2009 11:59:17 PM

Test Laboratory: RTS

File Name:

[DipoleValidation\\_2450MHz\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_22.5\\_C\\_08\\_20\\_09.da4](#)

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

**Program Name: System Performance Check at 1900 MHz**

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 189.4 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 124.8 W/kg


**SAR(1 g) = 56.7 mW/g; SAR(10 g) = 26.4 mW/g**

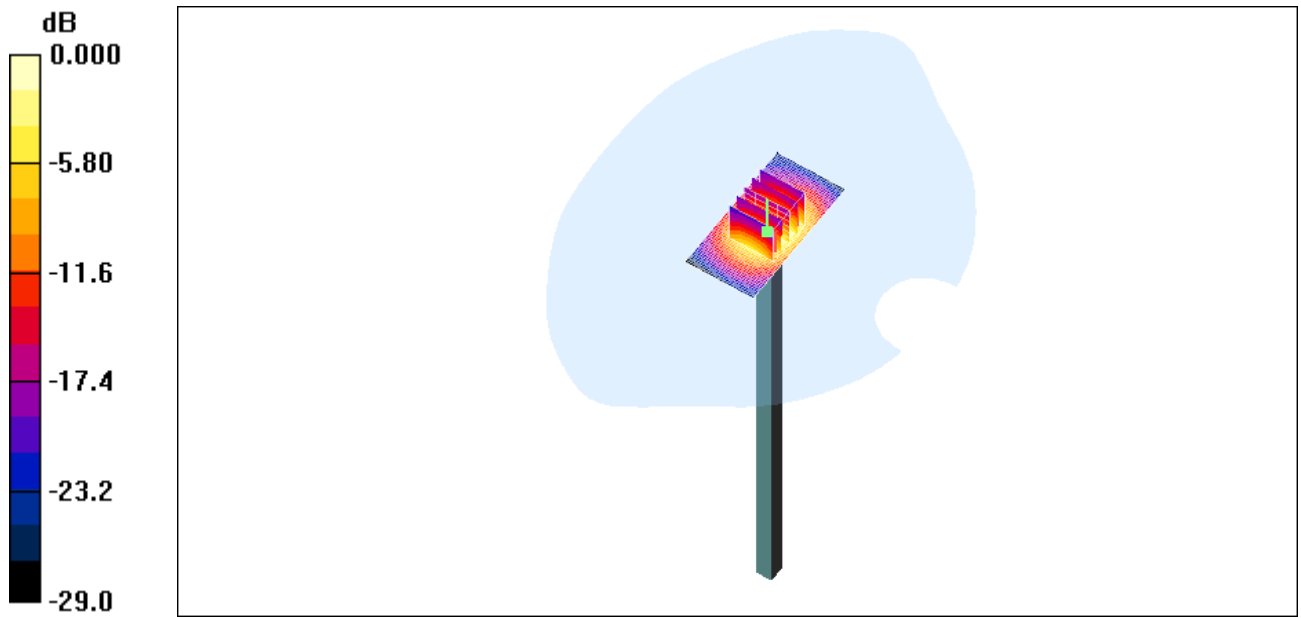
Maximum value of SAR (measured) = 62.5 mW/g

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

dy=15mm

Maximum value of SAR (interpolated) = 68.2 mW/g

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0 dB = 68.2mW/g