

Test Laboratory: Compliance Certification Services Inc.

## **D2450V2 SN 728**

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:728**

Communication System: CW2450; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.0$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Pin=250mW,d=10mm/Area Scan (6x6x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 88.3 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 9.28 mW/g

**Pin=250mW,d=10mm/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Reference Value = 88.3 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 15.6 mW/g

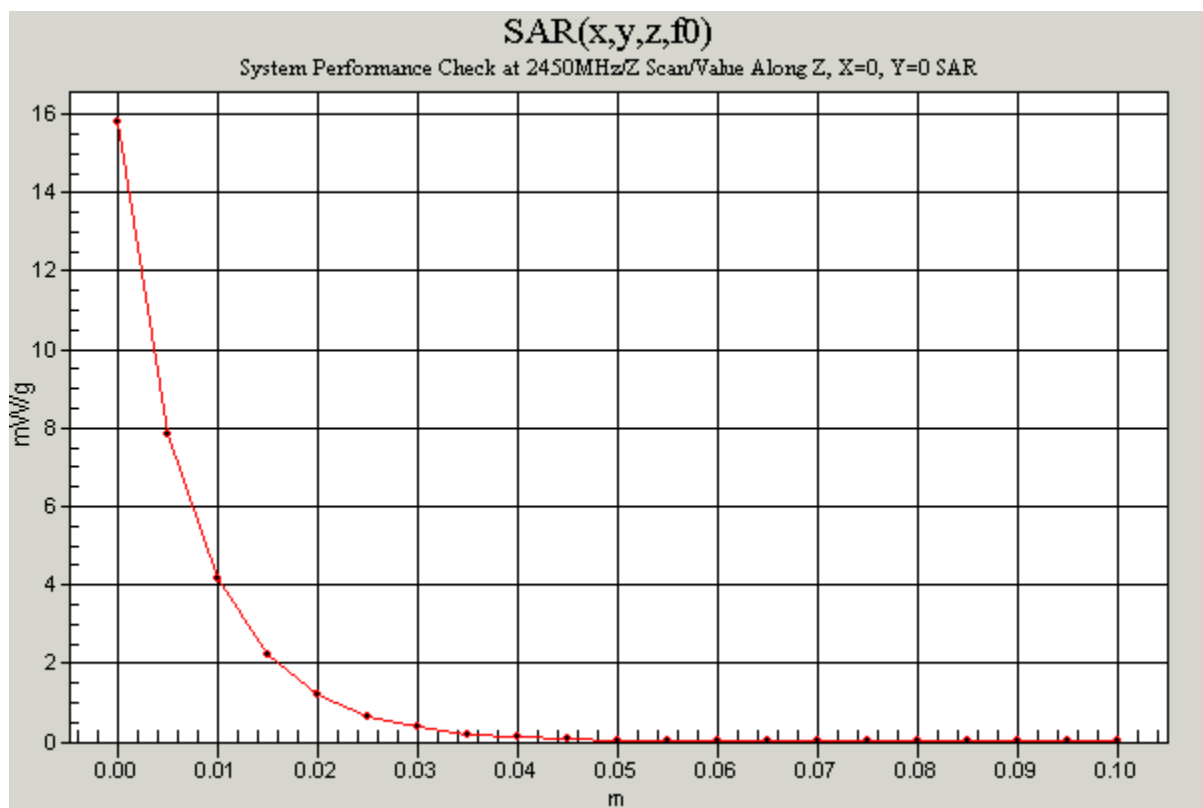
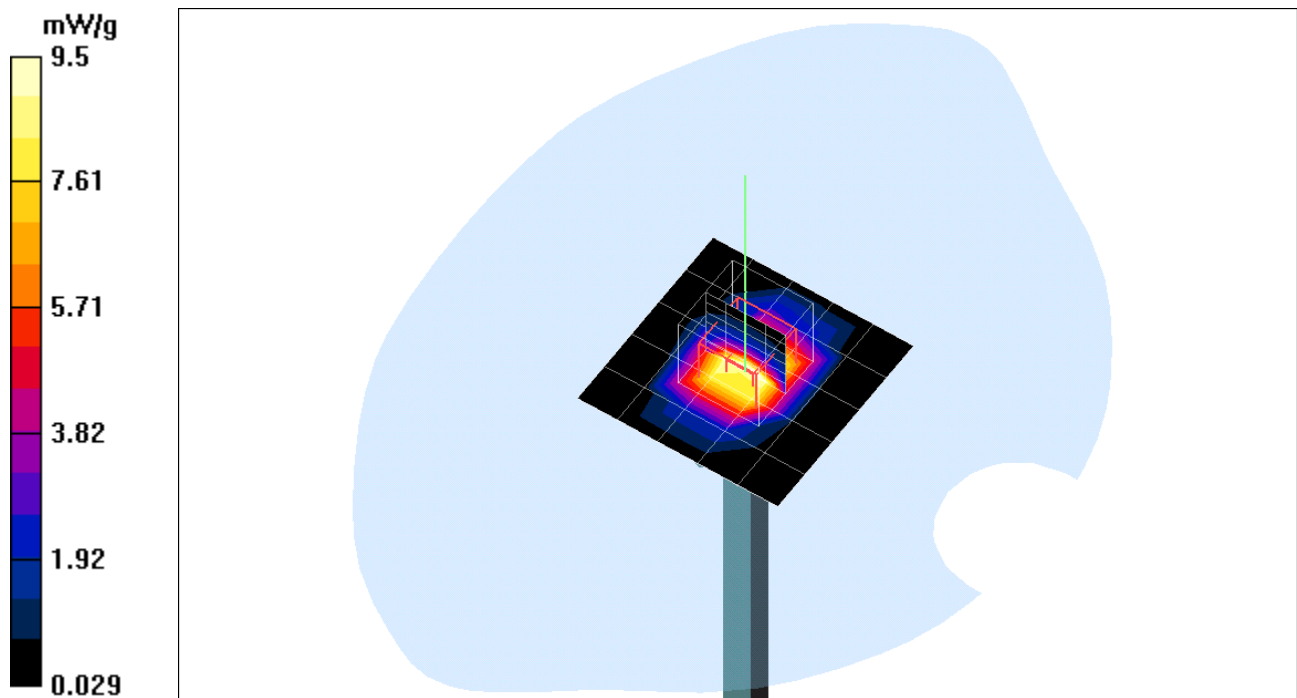
**Pin=250mW,d=10mm/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 88.3 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 15.2 mW/g

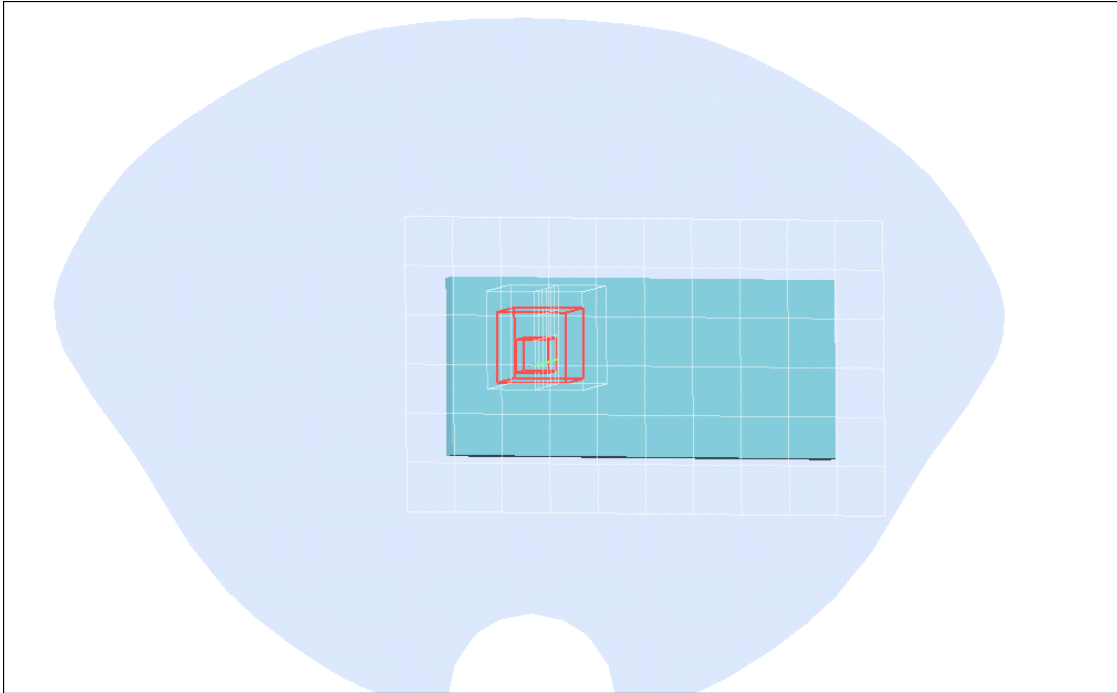
Peak SAR (extrapolated) = 26.6 W/kg

**SAR(1 g) = 12.9 mW/g; SAR(10 g) = 6.04 mW/g**



Test Laboratory: Compliance Certification Services Inc.

# Test Configuration-1



Test Laboratory: Compliance Certification Services Inc.

## **Touch mode-AntA**

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.0 \text{ mho/m}$ ;  $\epsilon_r = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Mid Rate=11M bit 2 2/Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Reference Value = 9.1 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.376 mW/g

**Mid Rate=11M bit 2 2/Z Scan (1x1x21):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.1 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.432 mW/g

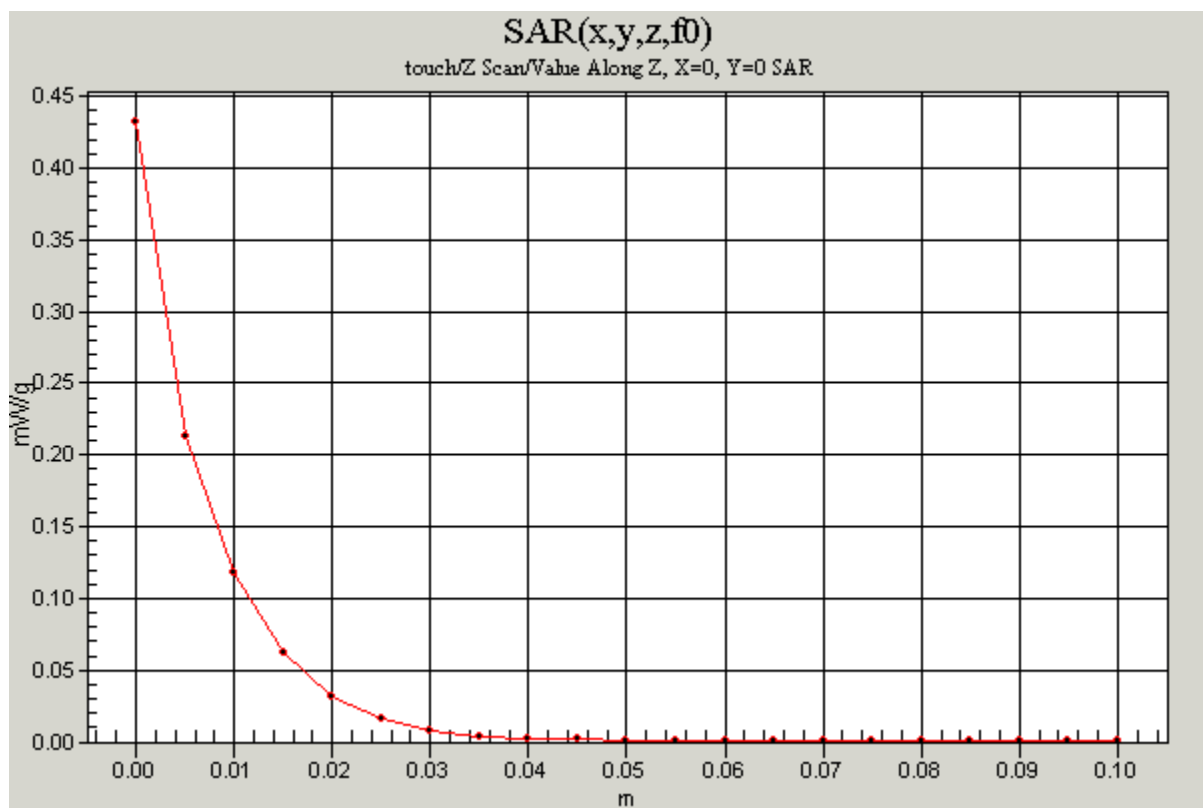
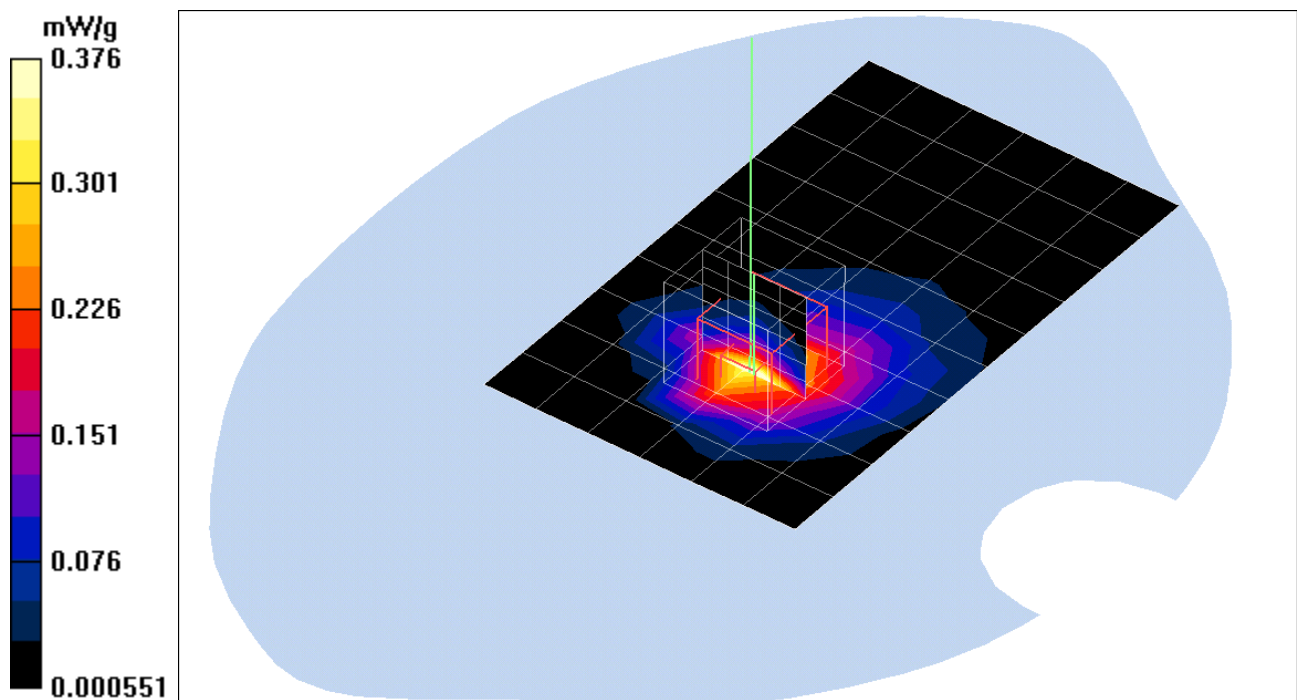
**Mid Rate=11M bit 2 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.1 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.442 mW/g

Peak SAR (extrapolated) = 0.901 W/kg

**SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.182 mW/g**



Test Laboratory: Compliance Certification Services Inc.

## **Touch mode-Ant B**

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.0$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Mid Rate=11M bit/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.3 V/m; Power Drift = 0.004 dB

Maximum value of SAR (measured) = 0.168 mW/g

**Mid Rate=11M bit/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.001 dB

Maximum value of SAR (measured) = 0.184 mW/g

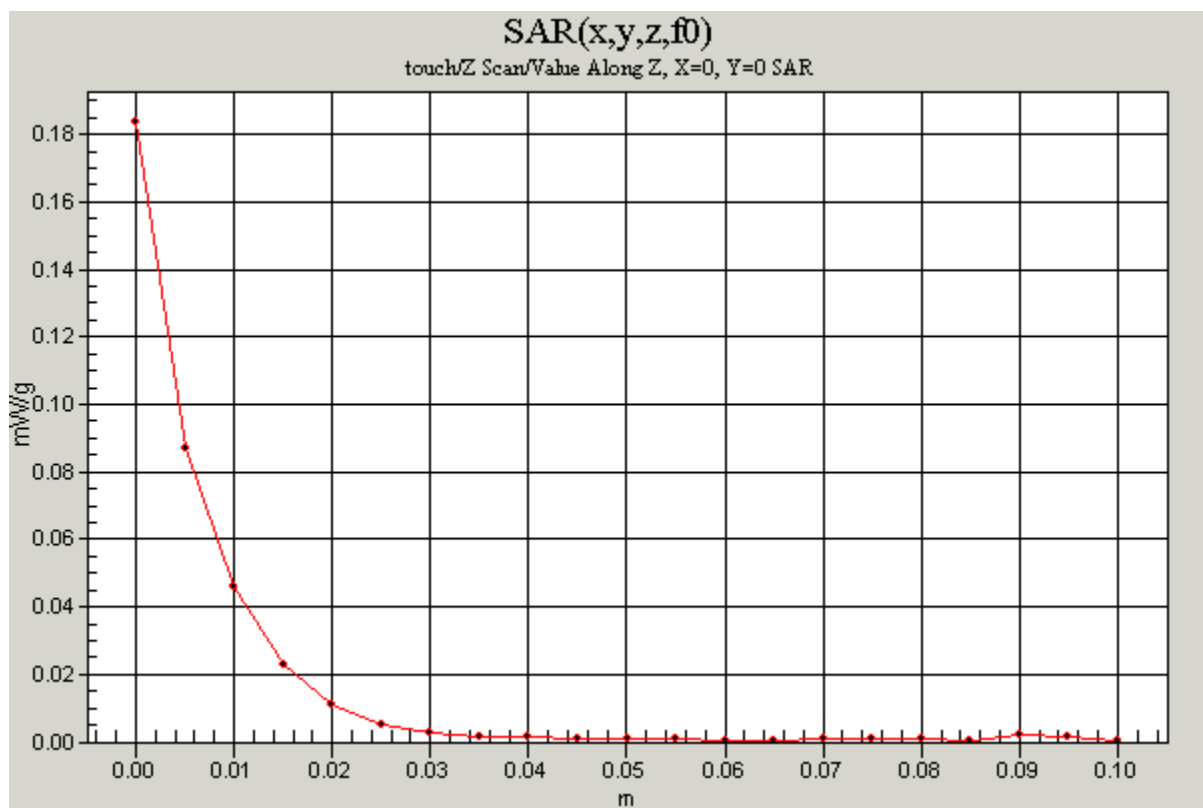
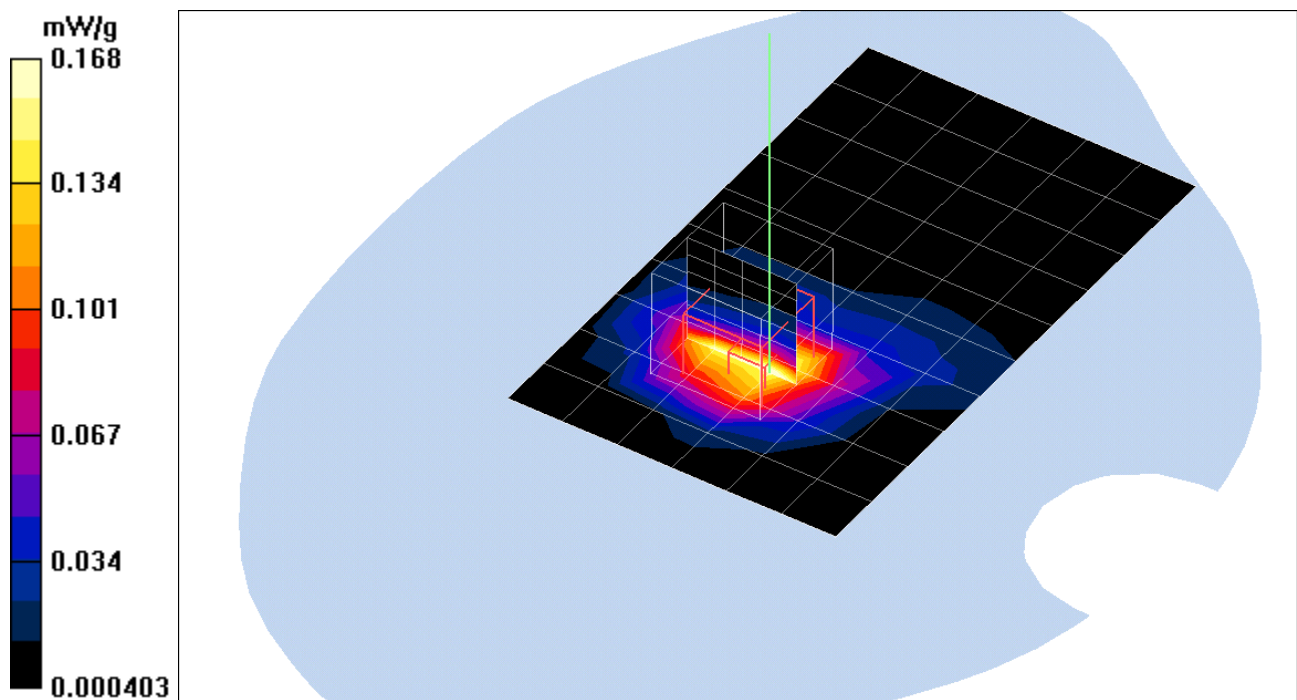
**Mid Rate=11M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.004 dB

Maximum value of SAR (measured) = 0.188 mW/g

Peak SAR (extrapolated) = 0.399 W/kg

**SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.084 mW/g**





Test Laboratory: Compliance Certification Services Inc.

## **Touch mode-Ant A**

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11g WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 2.0 \text{ mho/m}$ ;  $\epsilon = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$  Air  
Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C  
Phantom section: Flat Section

DASY4 Configuration:

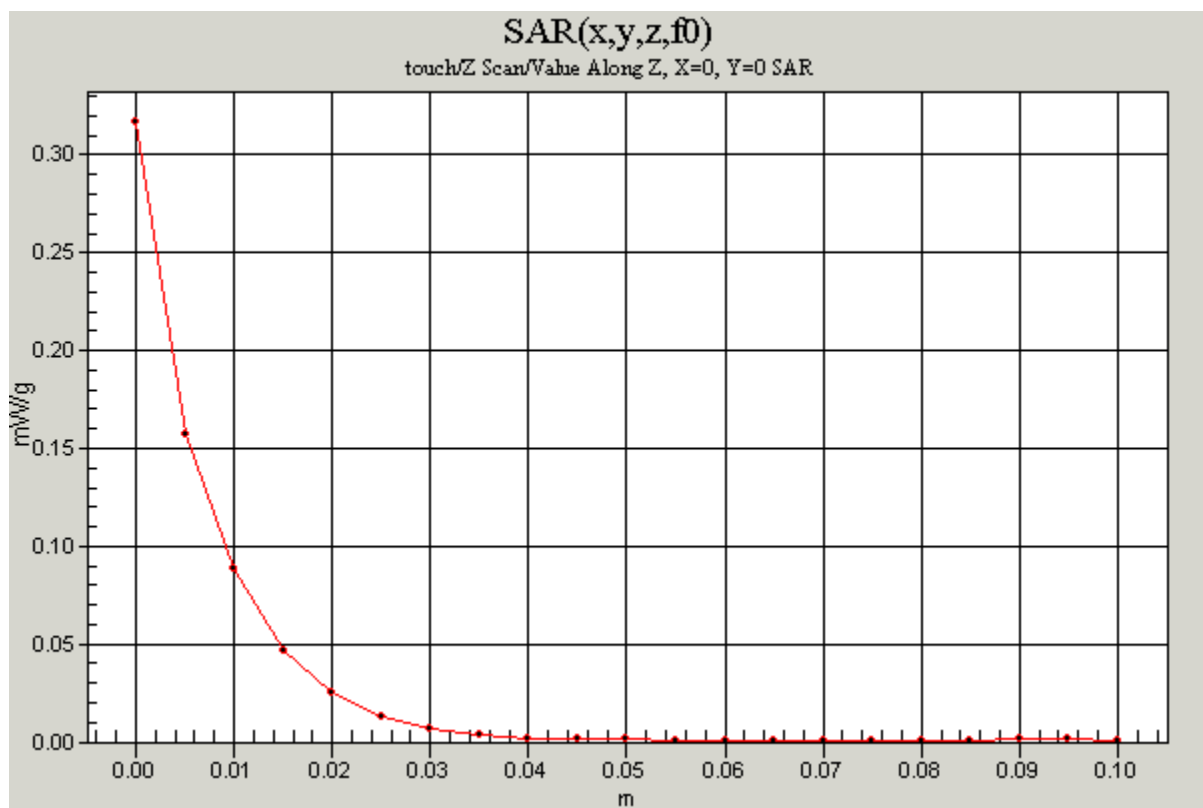
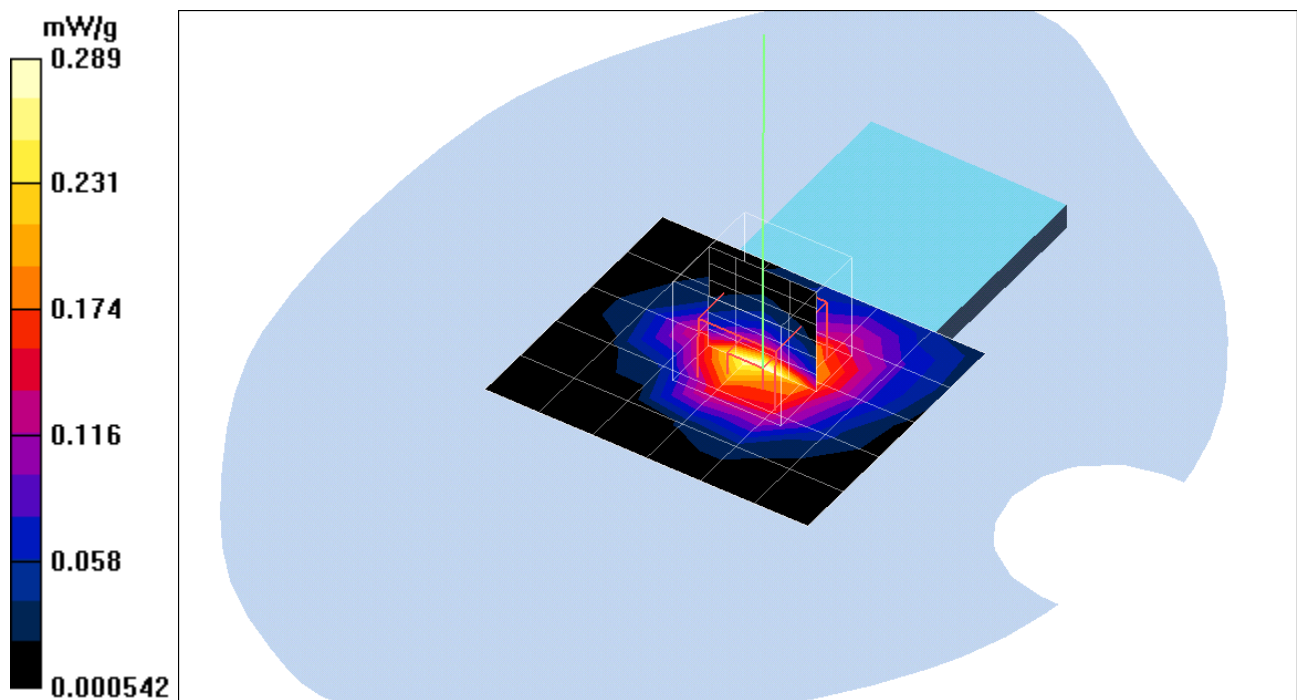
- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Low Rate=11M bit/Area Scan (7x6x1):** Measurement grid: dx=15mm, dy=15mm  
Reference Value = 13.3 V/m; Power Drift = 0.003 dB  
Maximum value of SAR (measured) = 0.289 mW/g

**Low Rate=11M bit/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Reference Value = 13.3 V/m; Power Drift = 0.006 dB  
Maximum value of SAR (measured) = 0.317 mW/g

**Low Rate=11M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 13.3 V/m; Power Drift = 0.003 dB  
Maximum value of SAR (measured) = 0.325 mW/g  
Peak SAR (extrapolated) = 0.670 W/kg  
SAR(1 g) = **0.295 mW/g**; SAR(10 g) = **0.140 mW/g**





Test Laboratory: Compliance Certification Services Inc.

## **Touch mode-Ant A**

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.0$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Mid Rate=11M bit/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.69 V/m; Power Drift = -0.004 dB

Maximum value of SAR (measured) = 0.475 mW/g

**Mid Rate=11M bit/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Reference Value = 9.69 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.451 mW/g

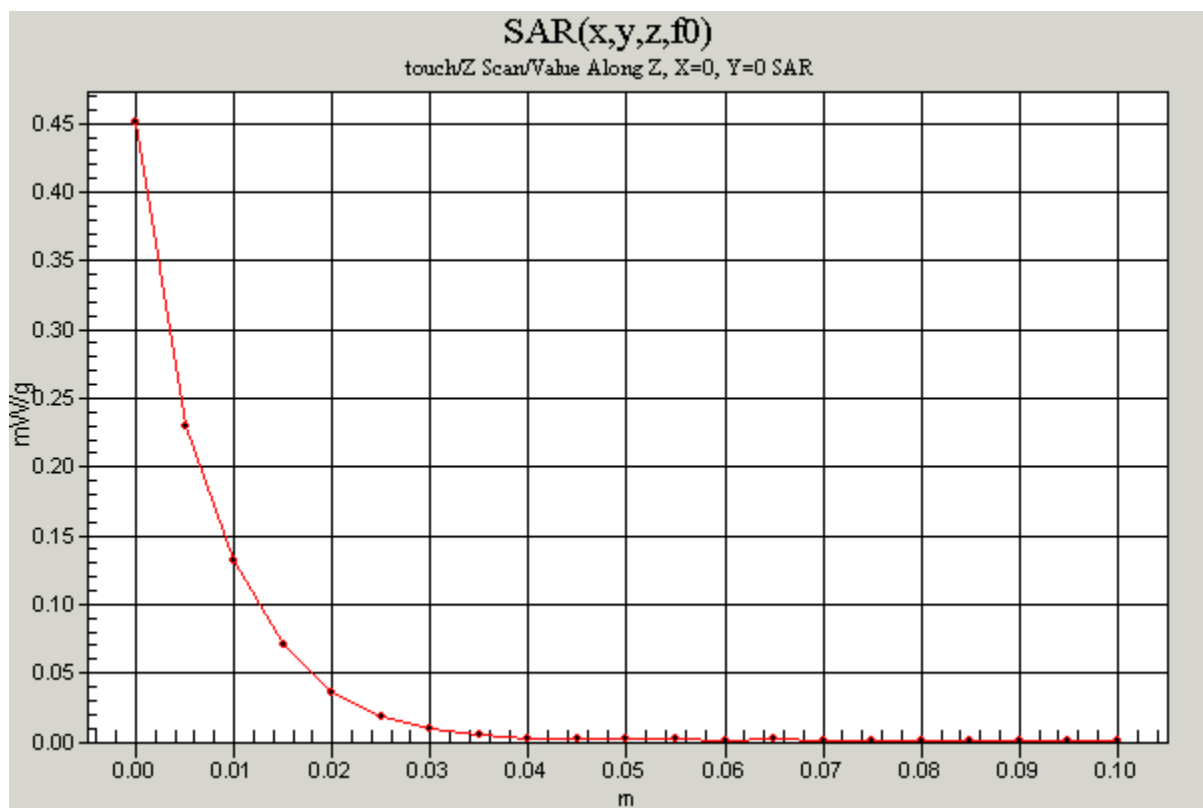
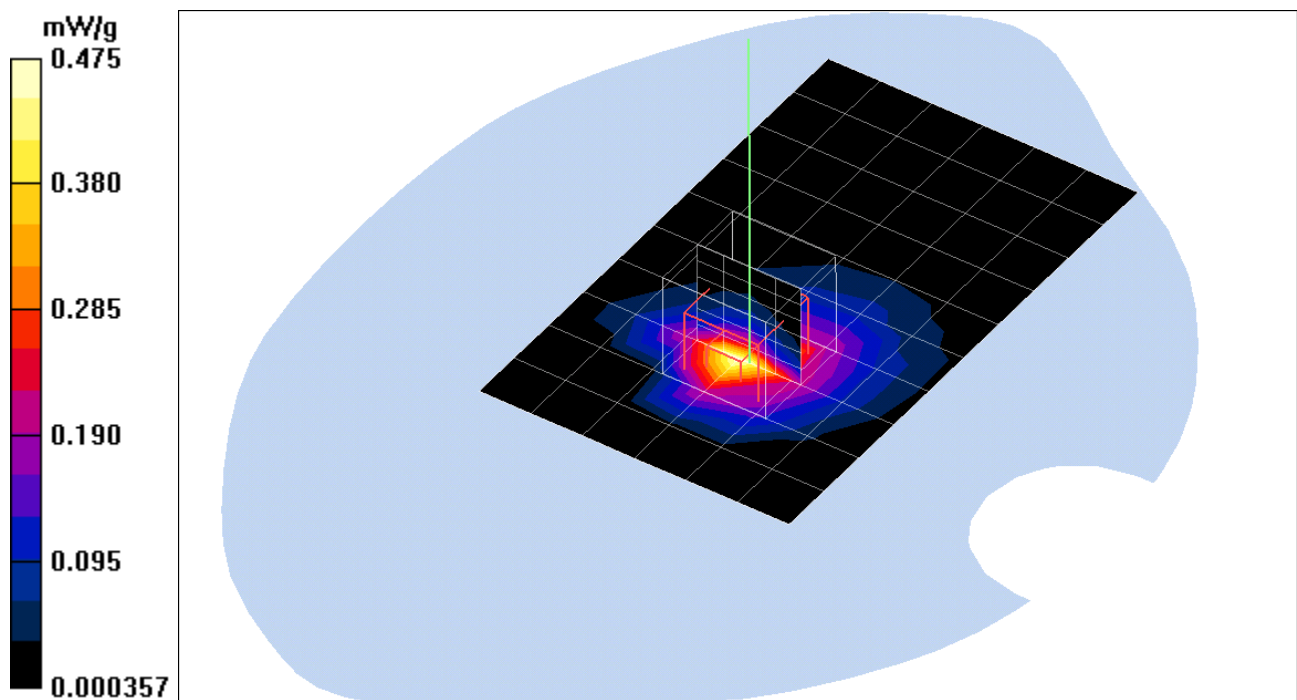
**Mid Rate=11M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.69 V/m; Power Drift = -0.004 dB

Maximum value of SAR (measured) = 0.462 mW/g

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.199 mW/g**



Test Laboratory: Compliance Certification Services Inc.

## **Touch mode-Ant A**

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11g WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.0$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**High Rate=11M bit/Area Scan (7x6x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 16.8 V/m; Power Drift = -0.002 dB

Maximum value of SAR (measured) = 0.468 mW/g

**High Rate=11M bit/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = -0.007 dB

Maximum value of SAR (measured) = 0.448 mW/g

**High Rate=11M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

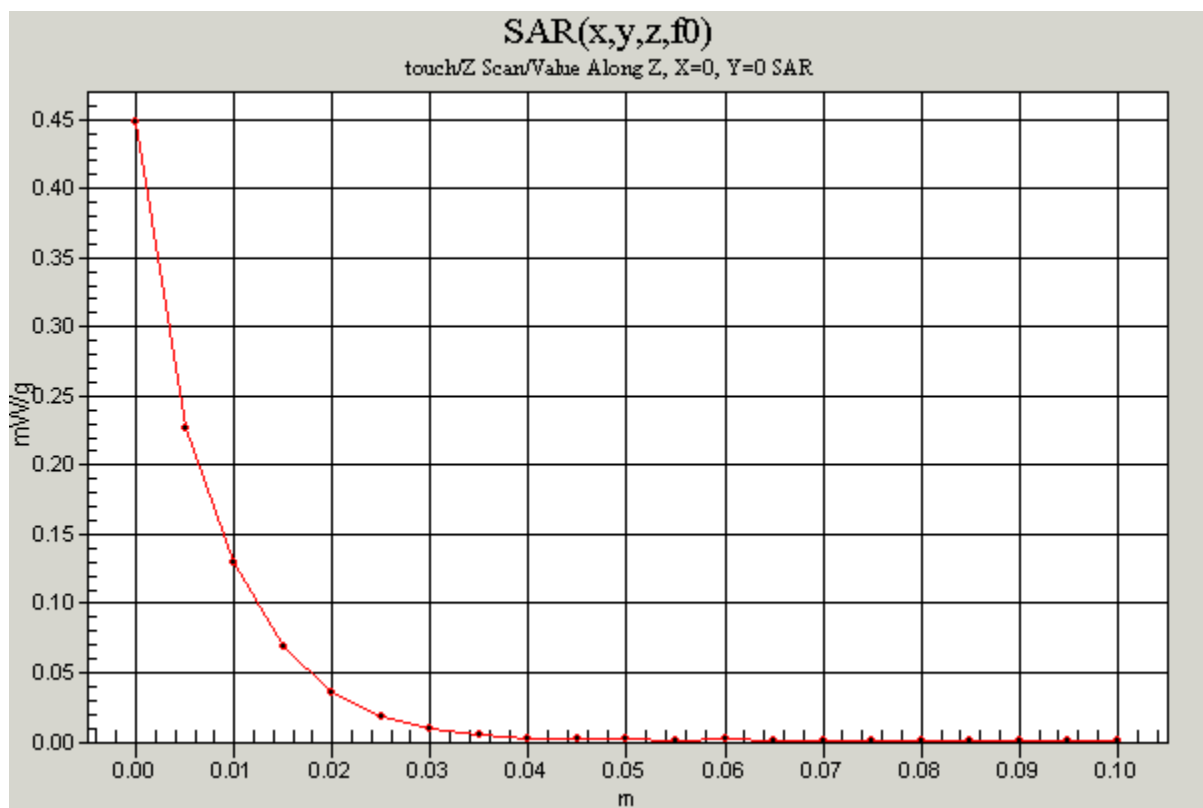
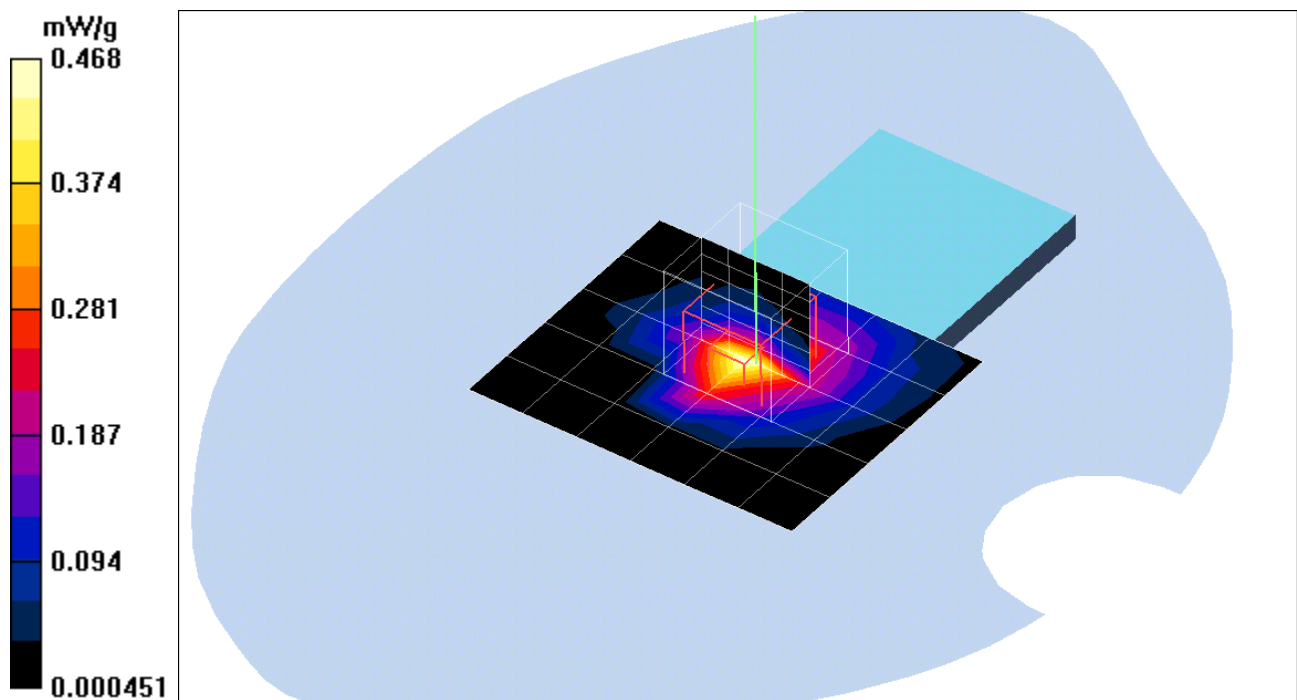
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = -0.002 dB

Maximum value of SAR (measured) = 0.462 mW/g

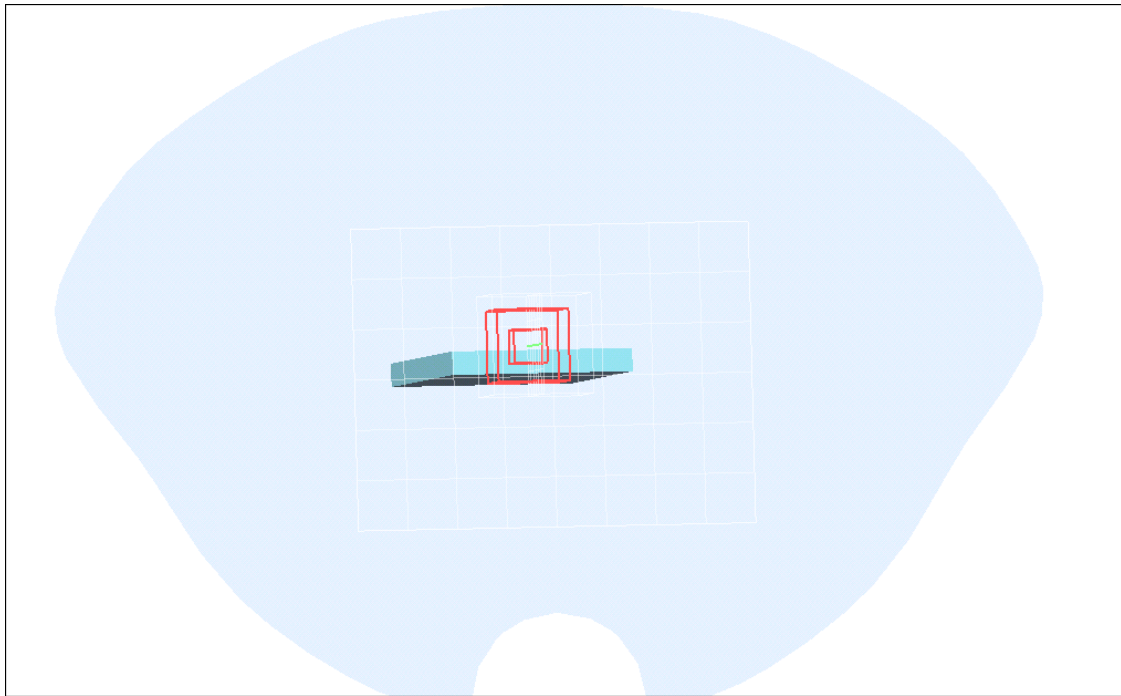
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = **0.454** mW/g; SAR(10 g) = **0.205** mW/g



Test Laboratory: Compliance Certification Services Inc.

# Test Configuration-2



Test Laboratory: Compliance Certification Services Inc.

## 15mm mode-Ant A

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.0 \text{ mho/m}$ ;  $\epsilon = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Mid Rate=11M bit/Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Reference Value = 4.52 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.036 mW/g

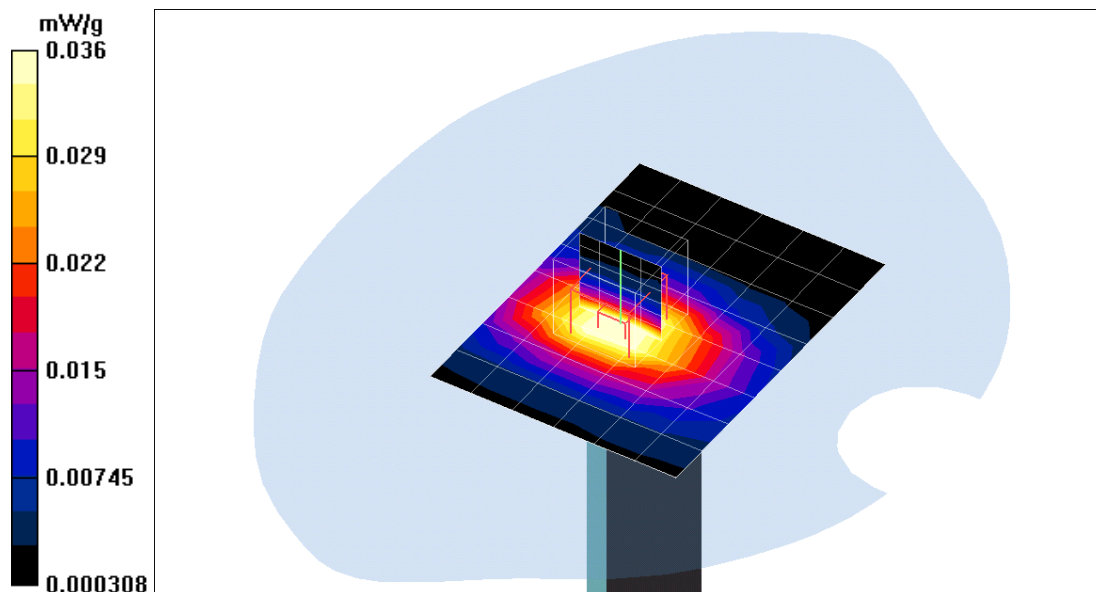
**Mid Rate=11M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 4.52 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.042 mW/g

Peak SAR (extrapolated) = 0.084 W/kg

**SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.021 mW/g**





Test Laboratory: Compliance Certification Services Inc.

## 15mm mode-AntA

**DUT: 802.11g Cardbus Adapter; Type: F5D7010; Serial: N/A**

Communication System: IEEE 802.11g WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.0 \text{ mho/m}$ ;  $\epsilon_r = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Air Temperature: 24.8 deg C; Liquid Temperature: 23.8 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1763; ConvF(4.41, 4.41, 4.41); Calibrated: 3/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Mid Rate=11M bit/Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Reference Value = 3.04 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.045 mW/g

**Mid Rate=11M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 3.04 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.053 mW/g

Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = **0.050 mW/g**; SAR(10 g) = 0.027 mW/g

