

Test Laboratory: Compliance Certification Services Inc.

## **D2450V2 SN-728 Body**

**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;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 10.3 mW/g

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

dy=7.5mm, dz=5mm

Reference Value = 88.2 V/m; Power Drift = -0.111 dB

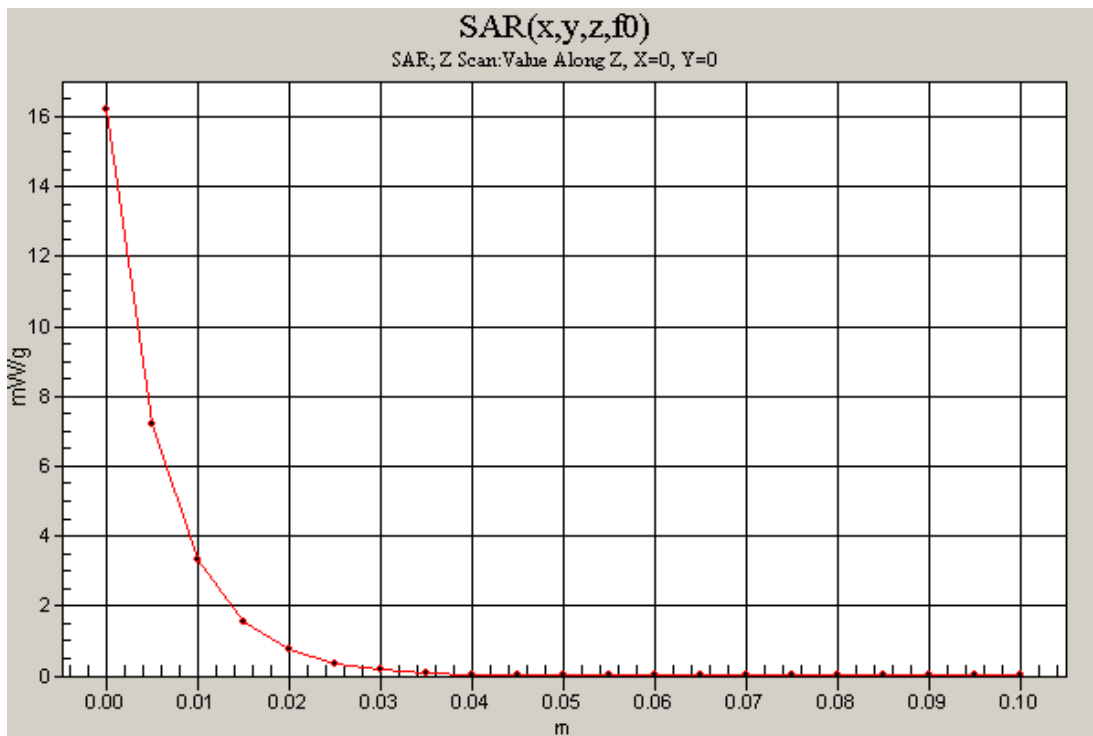
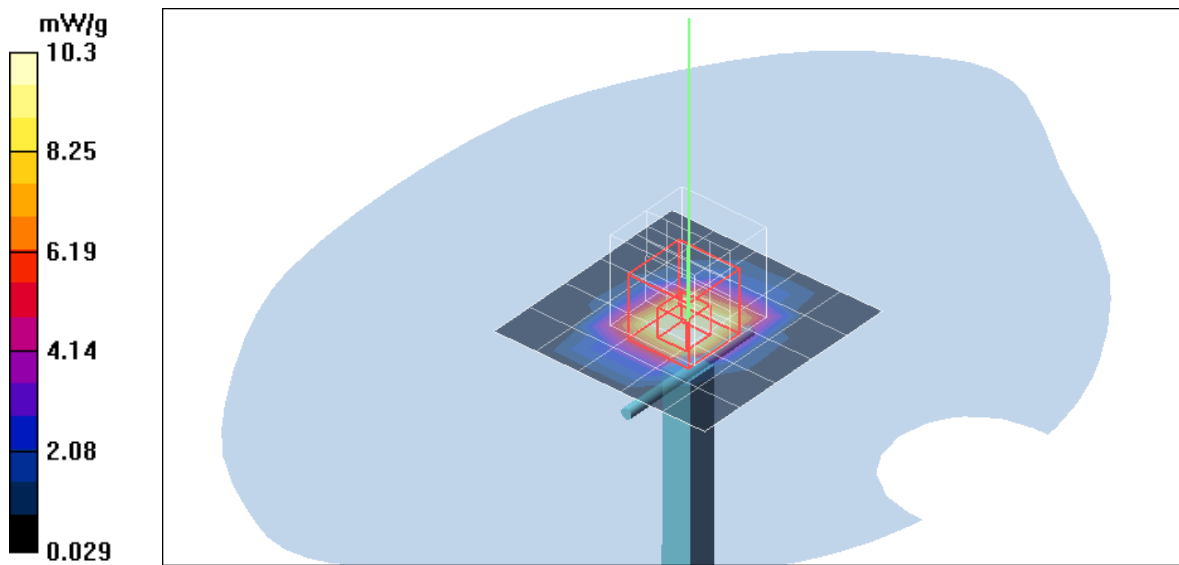
Peak SAR (extrapolated) = 33.8 W/kg

**SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.31 mW/g**

Maximum value of SAR (measured) = 16.1 mW/g

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

Maximum value of SAR (measured) = 16.2 mW/g



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## **D2450V2 SN-728 Body**

**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;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.4 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(7.88, 7.88, 7.88);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (measured) = 12.6 mW/g

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

Reference Value = 91.5 V/m; Power Drift = -0.027 dB

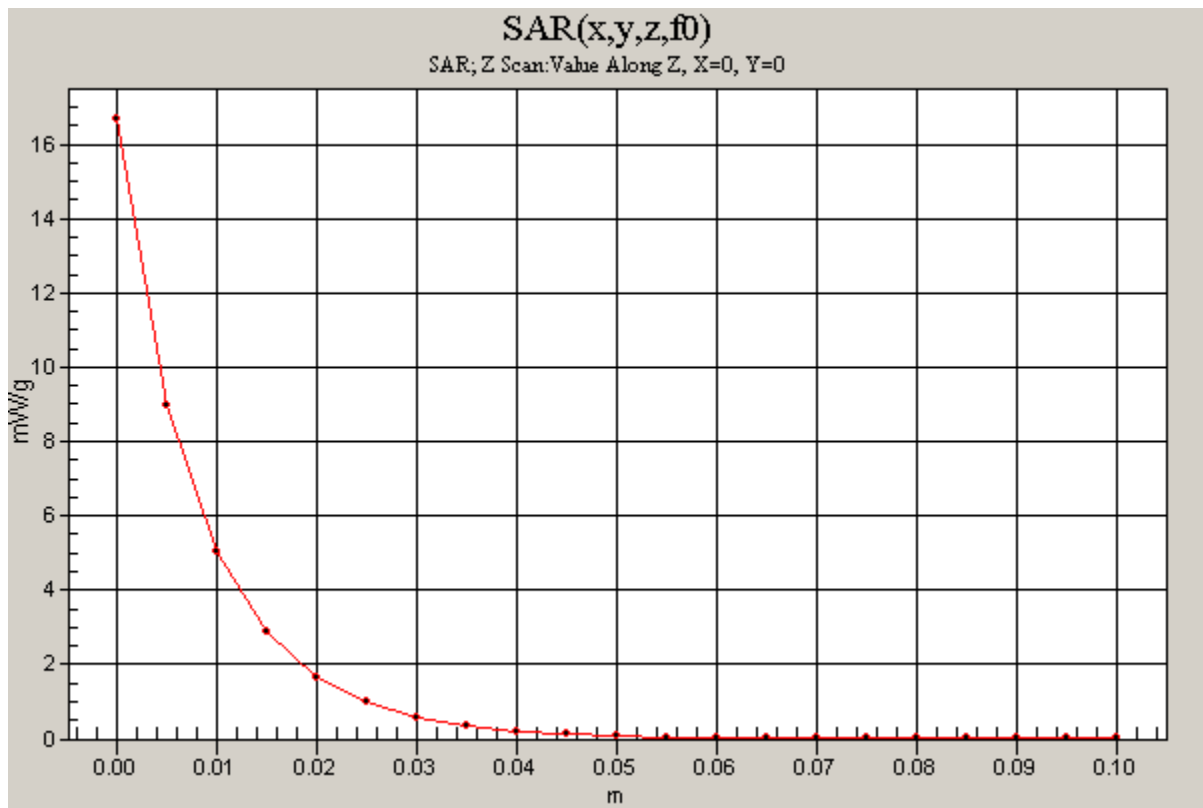
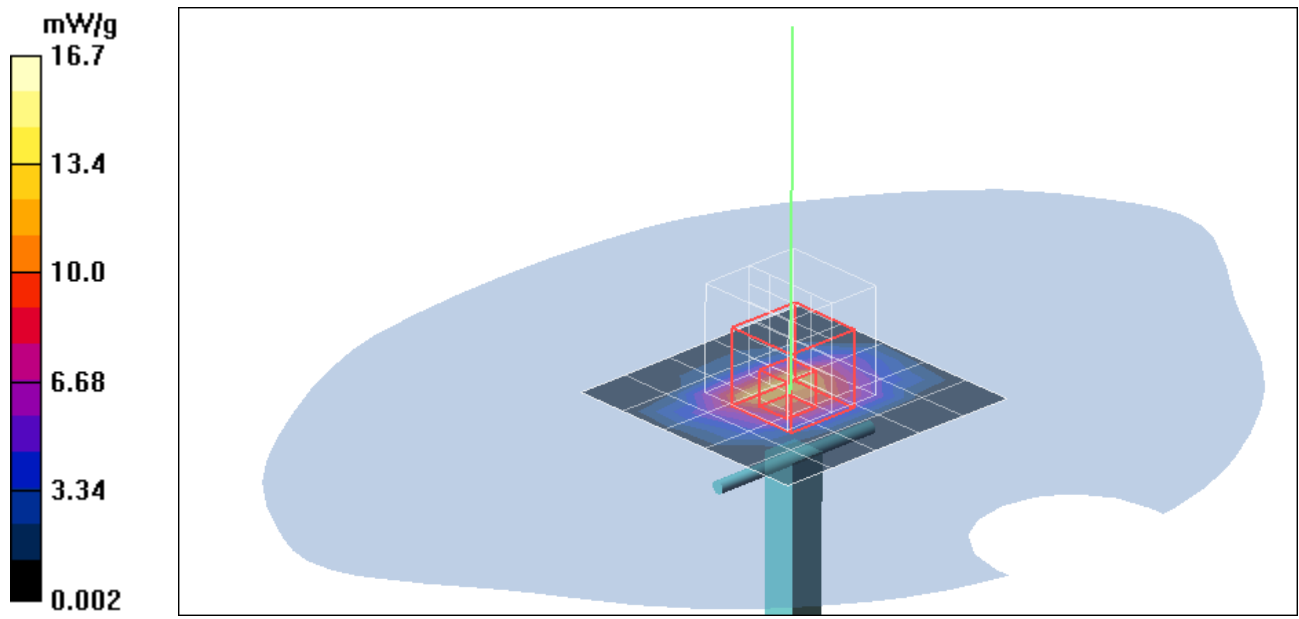
Peak SAR (extrapolated) = 28.1 W/kg

**SAR(1 g) = 14.3 mW/g; SAR(10 g) = 7.42 mW/g**

Maximum value of SAR (measured) = 16.6 mW/g

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

Maximum value of SAR (measured) = 16.7 mW/g



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## 802.11b Right Side Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

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

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.66 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 0.155 W/kg

**SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.052 mW/g

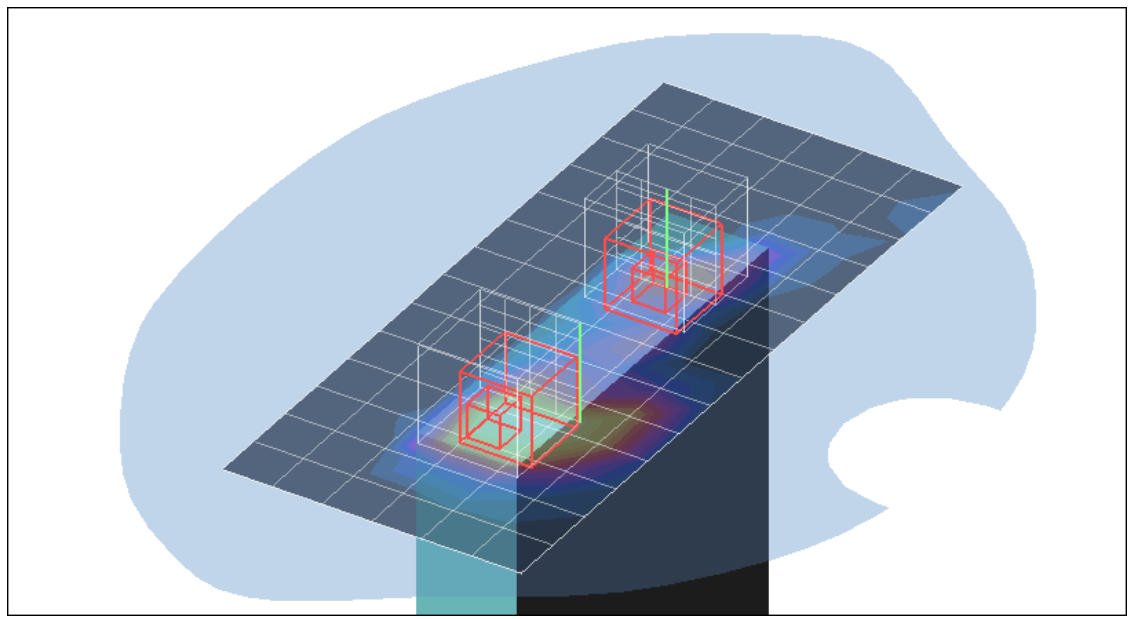
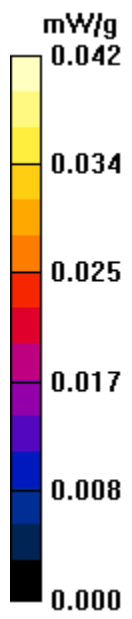
**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.66 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 0.052 W/kg

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.010 mW/g**

Maximum value of SAR (measured) = 0.034 mW/g



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## 802.11g Right Side Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.023 mW/g

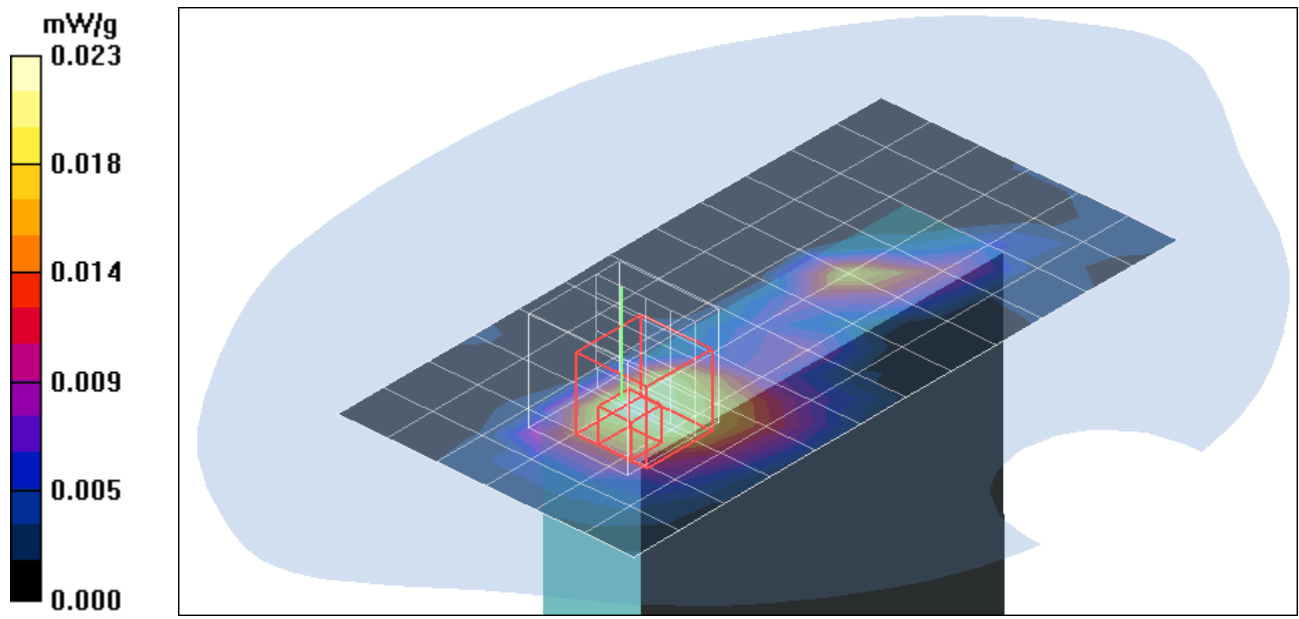
**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.03 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.043 W/kg

**SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00846 mW/g**

Maximum value of SAR (measured) = 0.024 mW/g





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## 802.11b Left Side Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.035 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.14 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.095 W/kg

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.038 mW/g

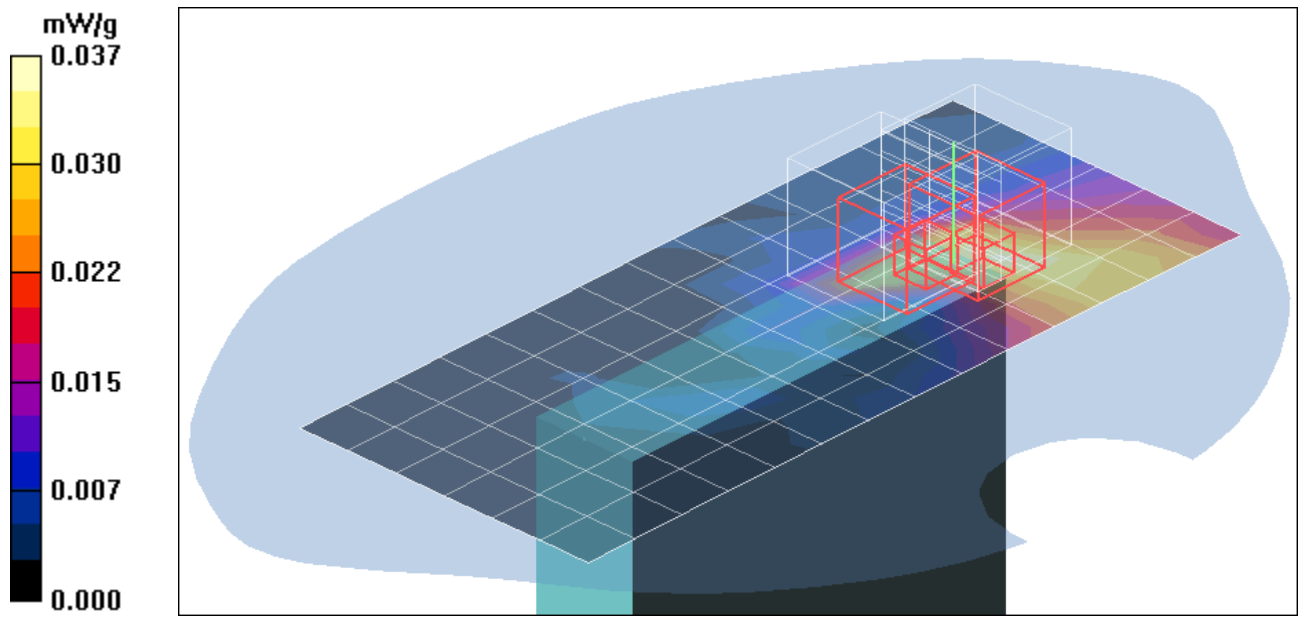
**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.14 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.062 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00784 mW/g**

Maximum value of SAR (measured) = 0.037 mW/g



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## 802.11g Left Side Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.016 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.51 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 0.049 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00413 mW/g**

Maximum value of SAR (measured) = 0.018 mW/g

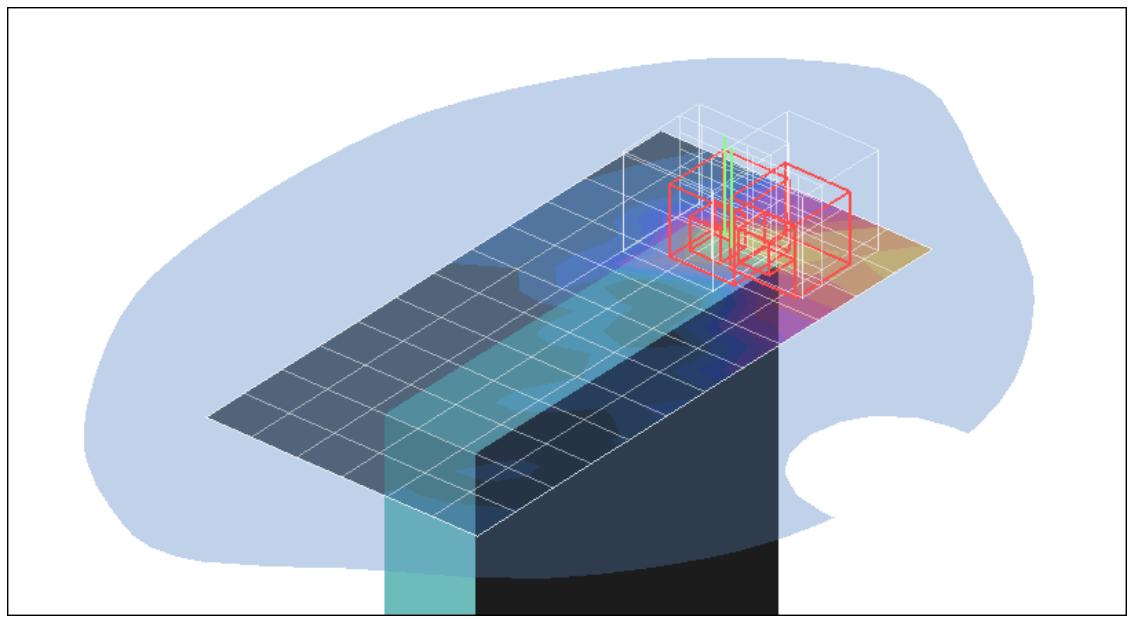
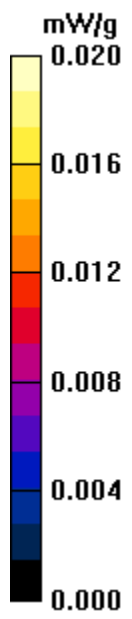
**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.51 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 0.053 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00577 mW/g**

Maximum value of SAR (measured) = 0.020 mW/g



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## 802.11b Bottom Edge Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (10x19x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.019 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement

grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 1.51 V/m; Power Drift = -0.156 dB

Peak SAR (extrapolated) = 0.036 W/kg

**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00431 mW/g**

Maximum value of SAR (measured) = 0.024 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement

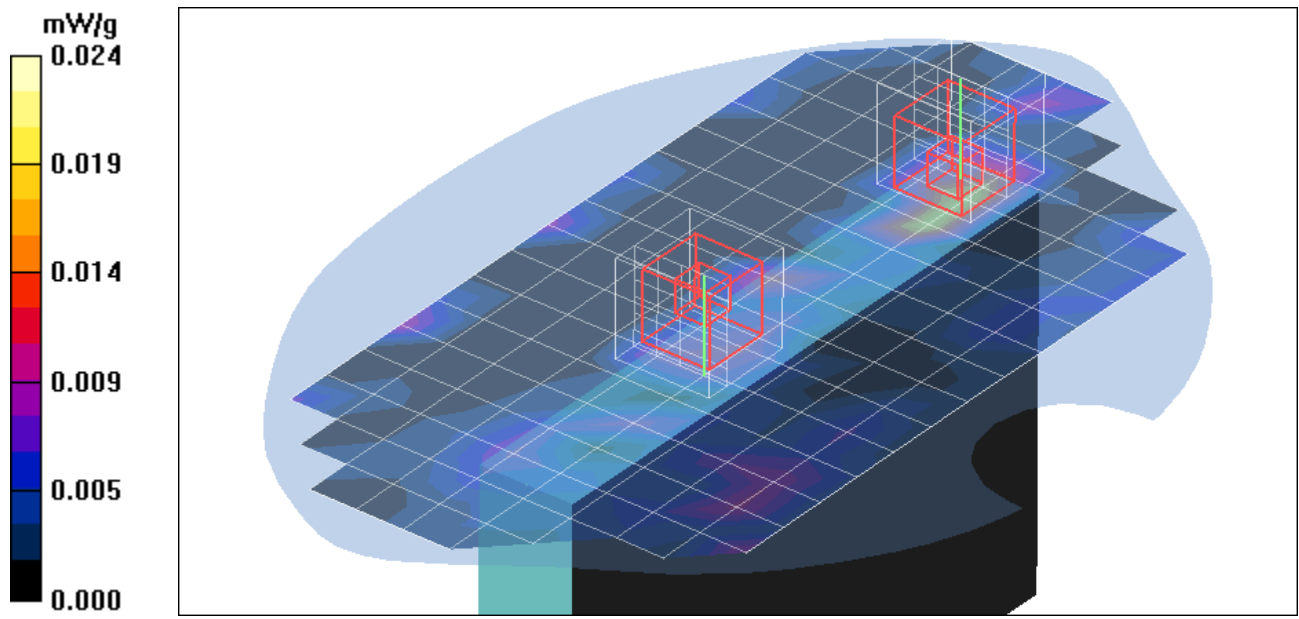
grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 1.51 V/m; Power Drift = -0.156 dB

Peak SAR (extrapolated) = 0.032 W/kg

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00259 mW/g**

Maximum value of SAR (measured) = 0.032 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 802.11g Bottom Edge Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (10x19x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.008 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 0.717 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.018 W/kg

**SAR(1 g) = 0.00326 mW/g; SAR(10 g) = 0.00132 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

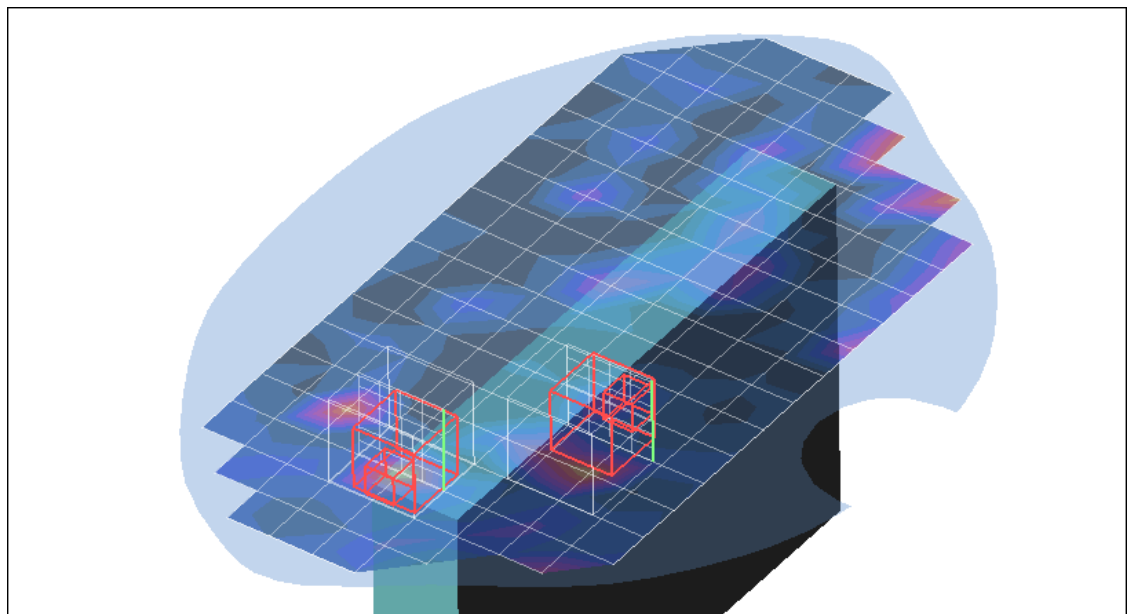
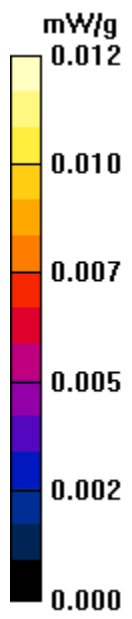
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 0.717 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.012 W/kg

**SAR(1 g) = 0.00773 mW/g; SAR(10 g) = 0.00465 mW/g**

Maximum value of SAR (measured) = 0.022 mW/g





Test Laboratory: Compliance Certification Services Inc.

## 802.11b Bottom Flat Touch mode close

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (13x19x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.009 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

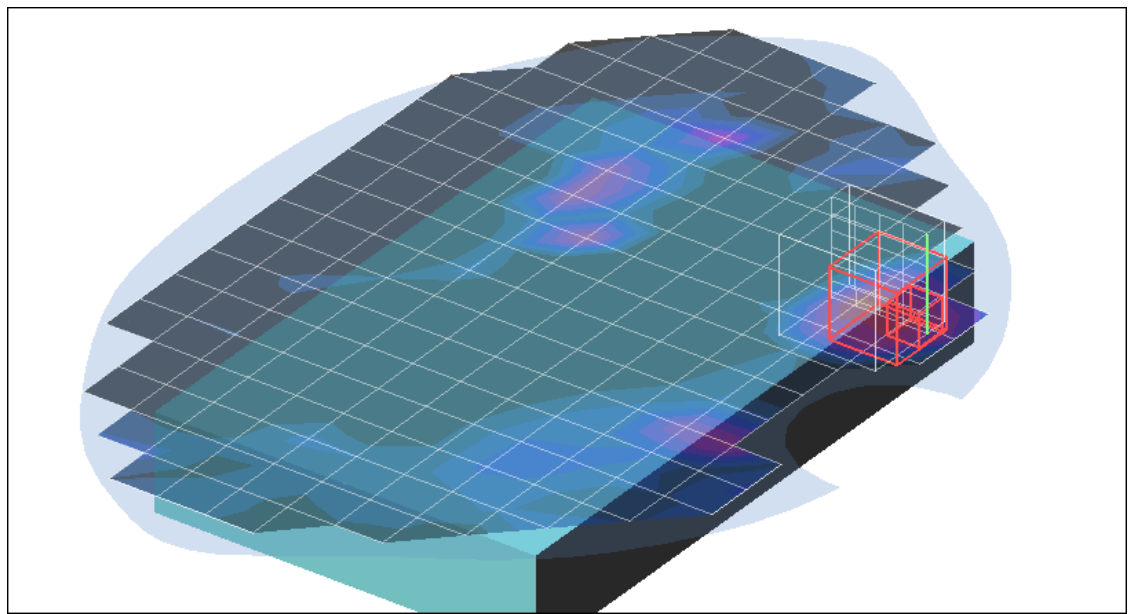
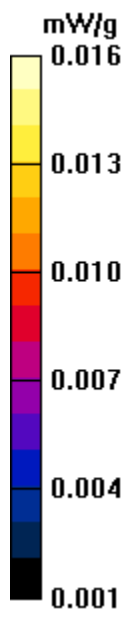
$dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 1.18 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 0.023 W/kg

**SAR(1 g) = 0.00993 mW/g; SAR(10 g) = 0.0044 mW/g**

Maximum value of SAR (measured) = 0.016 mW/g



Test Laboratory: Compliance Certification Services Inc.

## **802.11g Bottom Flat Touch mode close**

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (13x19x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.007 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

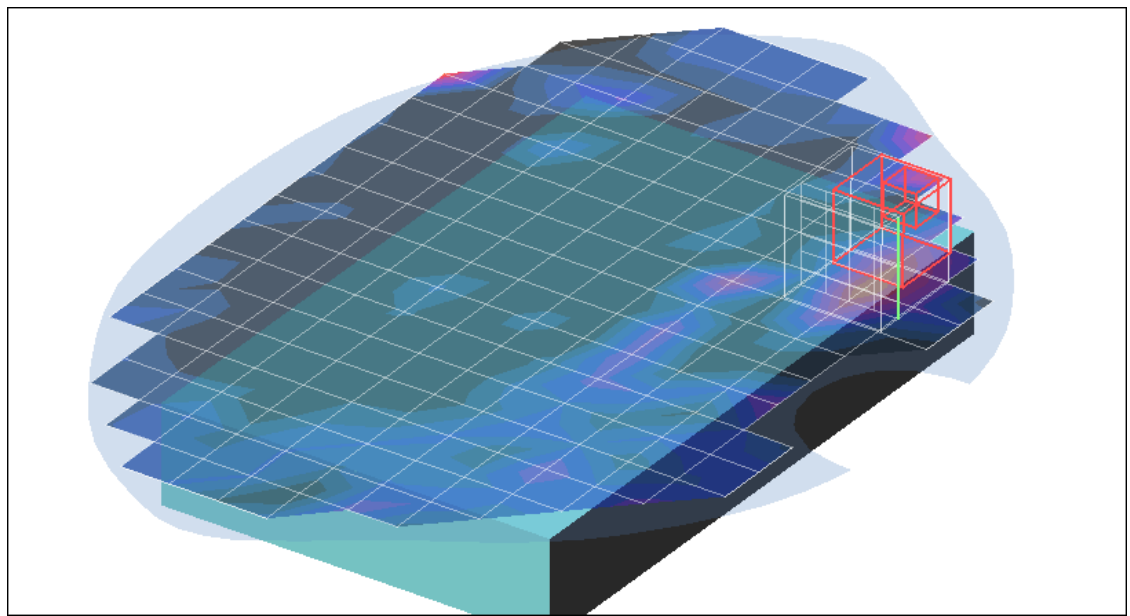
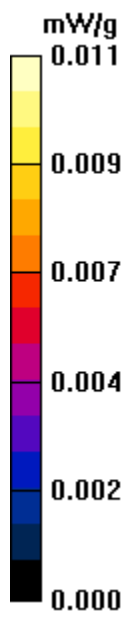
$dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 0.770 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.021 W/kg

**SAR(1 g) = 0.0039 mW/g; SAR(10 g) = 0.00157 mW/g**

Maximum value of SAR (measured) = 0.011 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 802.11b Right Side Touch mode slide

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.102 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.26 V/m; Power Drift = -0.091 dB

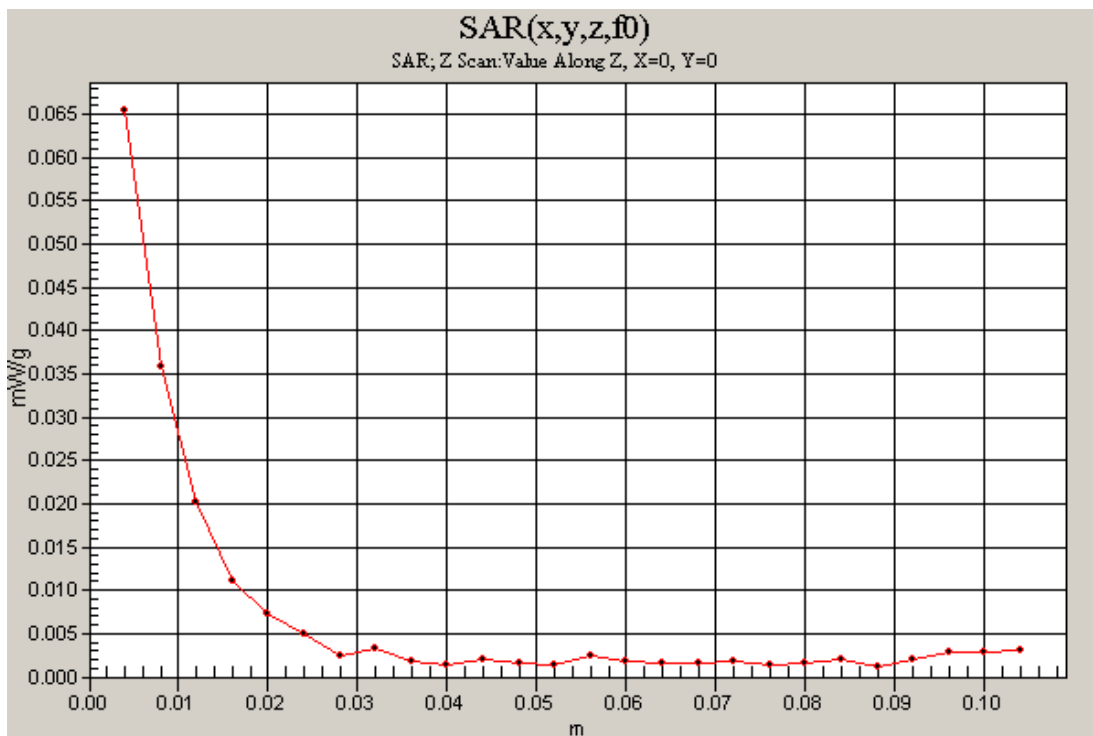
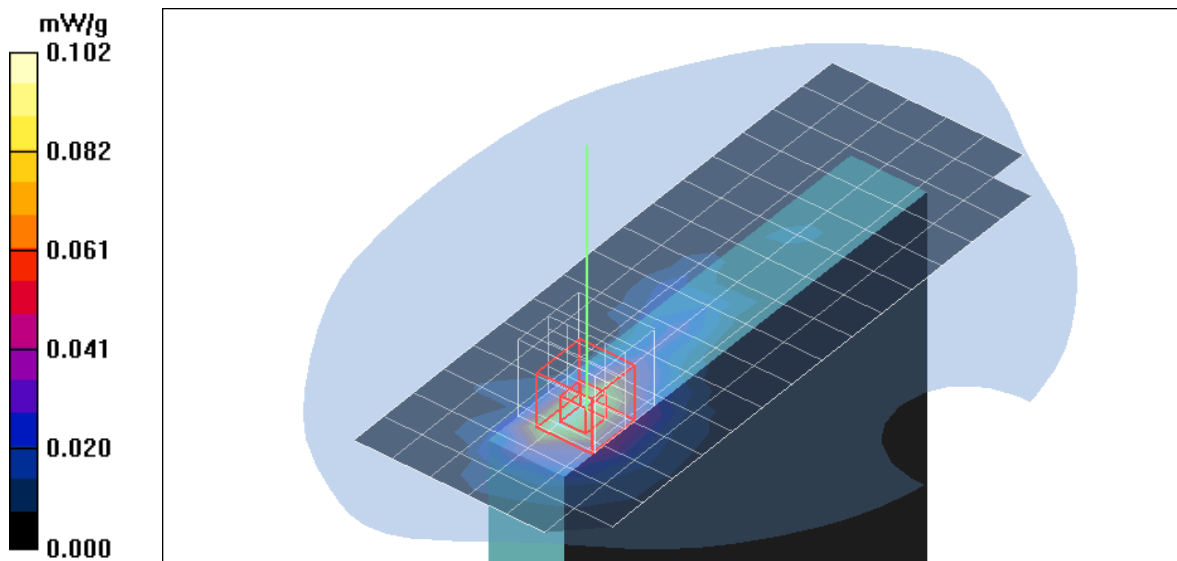
Peak SAR (extrapolated) = 0.193 W/kg

**SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.039 mW/g**

Maximum value of SAR (measured) = 0.124 mW/g

**Middle CH Rate=1M bit/Z Scan (1x1x26):** Measurement grid: dx=20mm, dy=20mm, dz=4mm

Maximum value of SAR (measured) = 0.066 mW/g



Test Laboratory: Compliance Certification Services Inc.

## co-Location Bt+802.11b Right Side Touch mode slide

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.4 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(7.88, 7.88, 7.88);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.092 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.53 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.190 W/kg

**SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.027 mW/g**

Maximum value of SAR (measured) = 0.105 mW/g

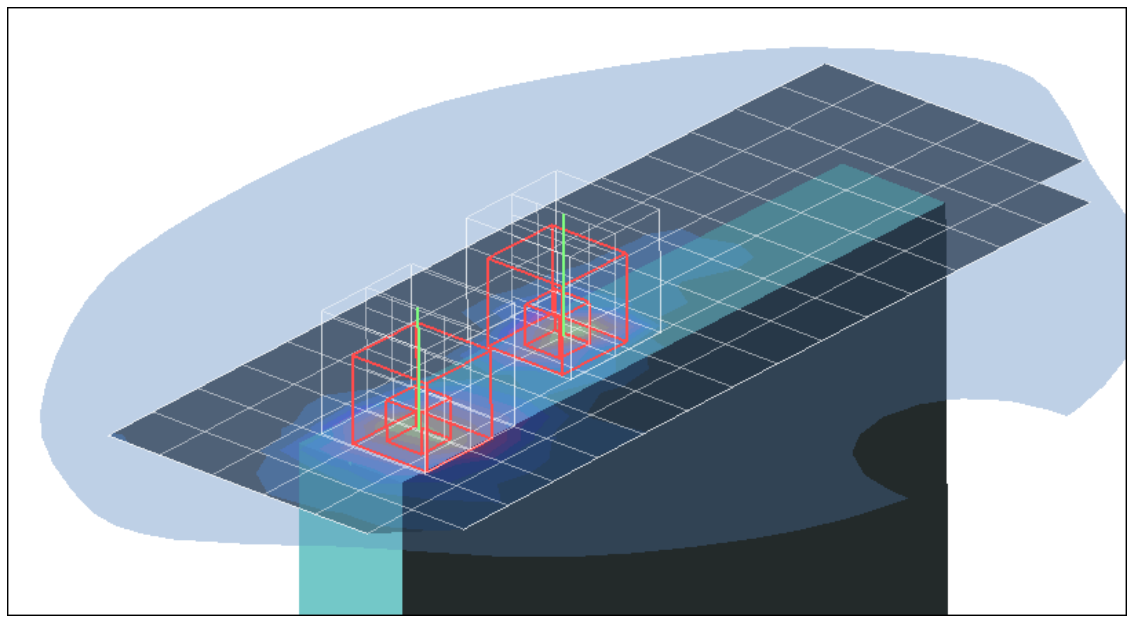
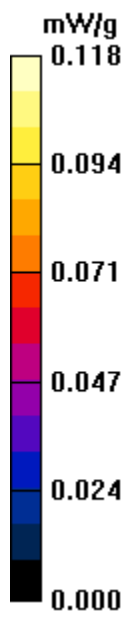
**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.53 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.175 W/kg

**SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.037 mW/g**

Maximum value of SAR (measured) = 0.118 mW/g





Test Laboratory: Compliance Certification Services Inc.

## 802.11g Right Side Touch mode slide

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.051 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 2.48 V/m; Power Drift = -0.099 dB

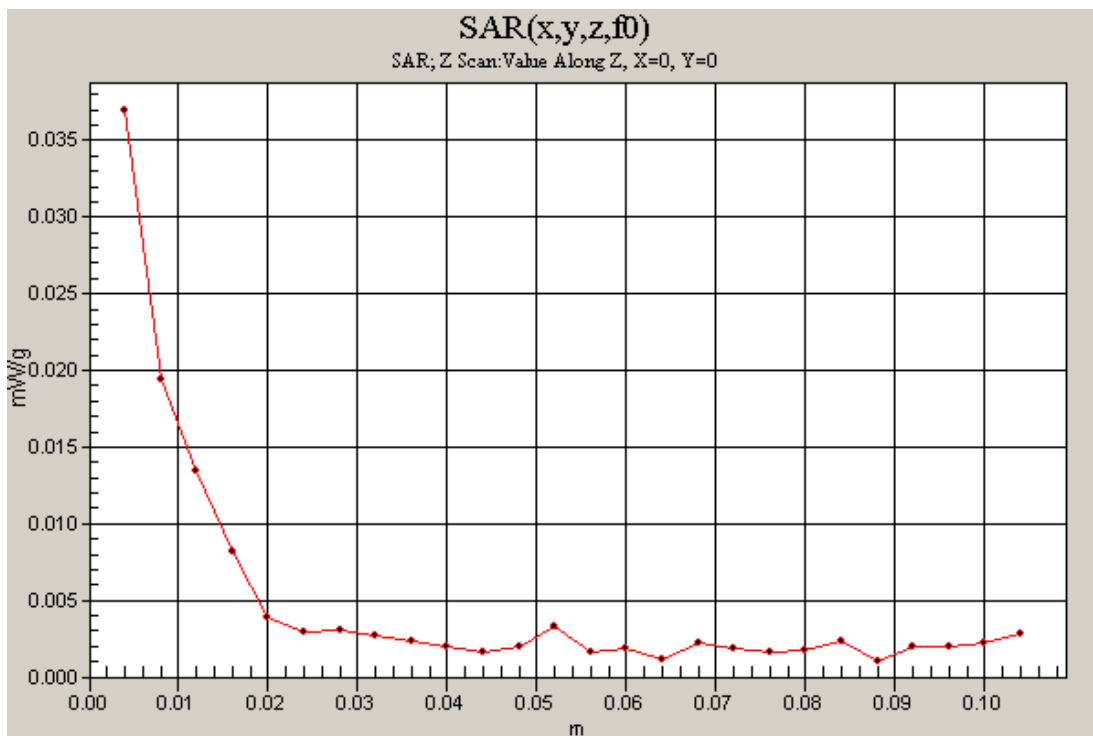
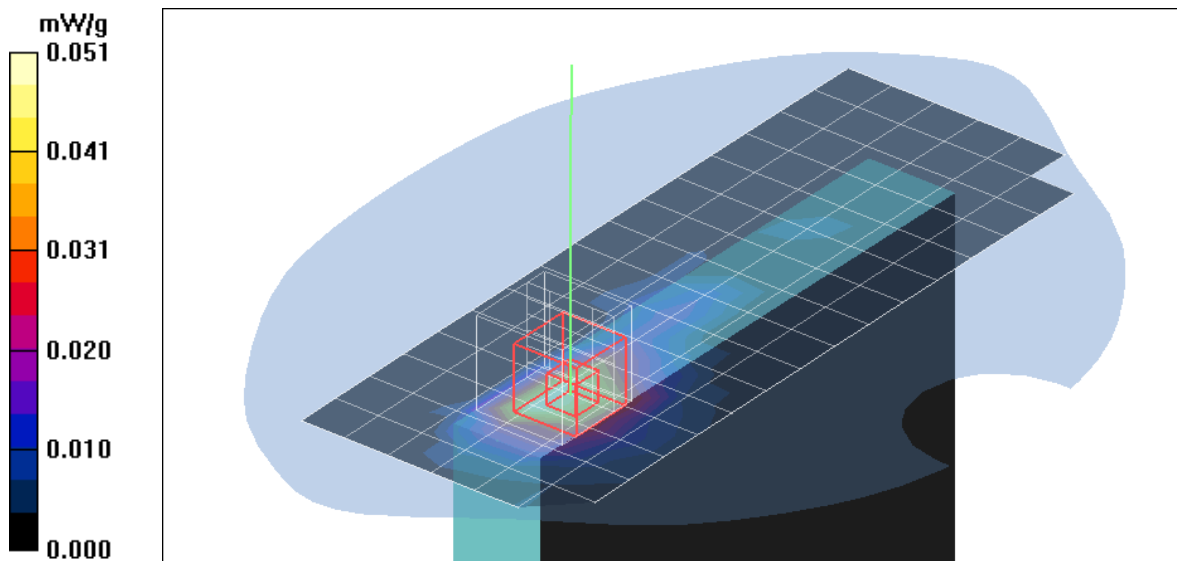
Peak SAR (extrapolated) = 0.108 W/kg

**SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.071 mW/g

**Middle CH Rate=6M bit/Z Scan (1x1x26):** Measurement grid: dx=20mm, dy=20mm, dz=4mm

Maximum value of SAR (measured) = 0.037 mW/g



Test Laboratory: Compliance Certification Services Inc.

## **co-Location Bt+802.11g Right Side Touch mode slide**

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.4 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(7.88, 7.88, 7.88);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.016 mW/g

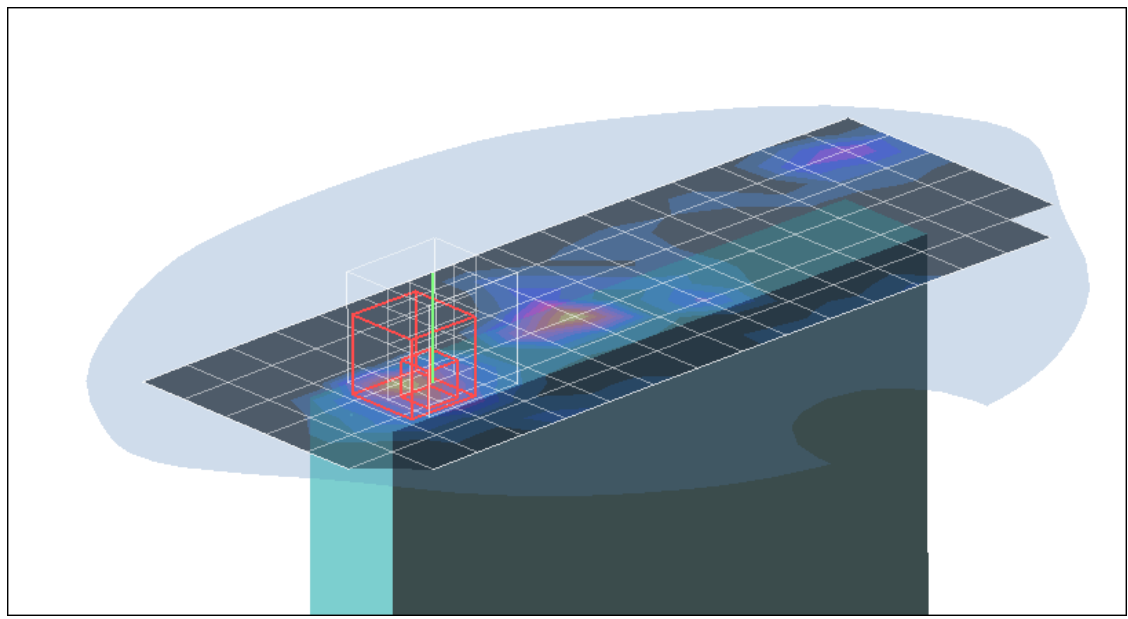
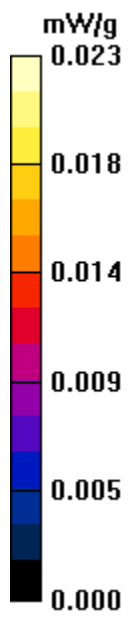
**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.48 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.085 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00786 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 802.11b Left Side Touch mode slide

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.071 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

Reference Value = 1.18 V/m; Power Drift = -0.126 dB

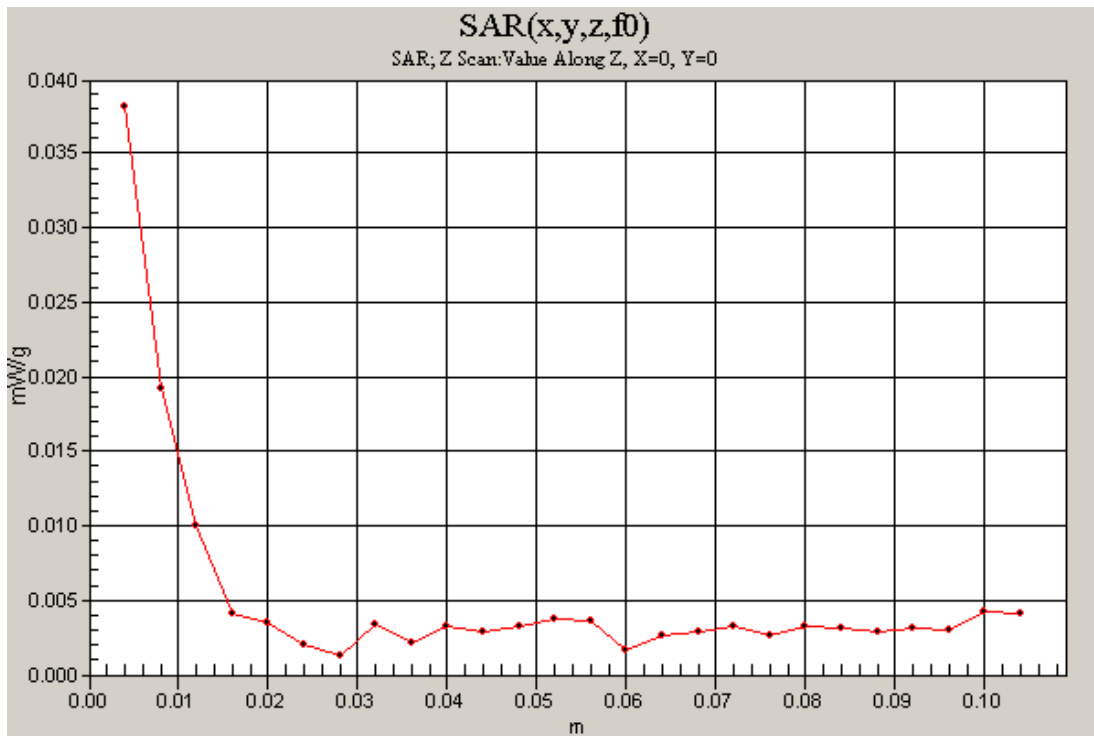
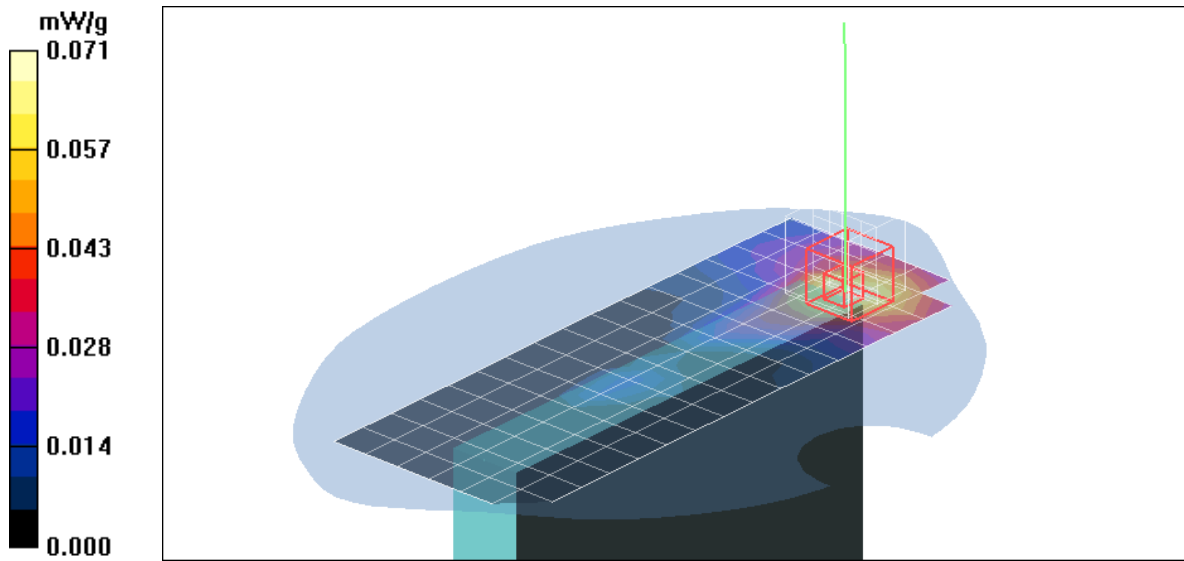
Peak SAR (extrapolated) = 0.131 W/kg

**SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.077 mW/g

**Middle CH Rate=1M bit/Z Scan (1x1x26):** Measurement grid: dx=20mm, dy=20mm, dz=4mm

Maximum value of SAR (measured) = 0.038 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 802.11g Left Side Touch mode open

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.025 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.38 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.033 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00819 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g

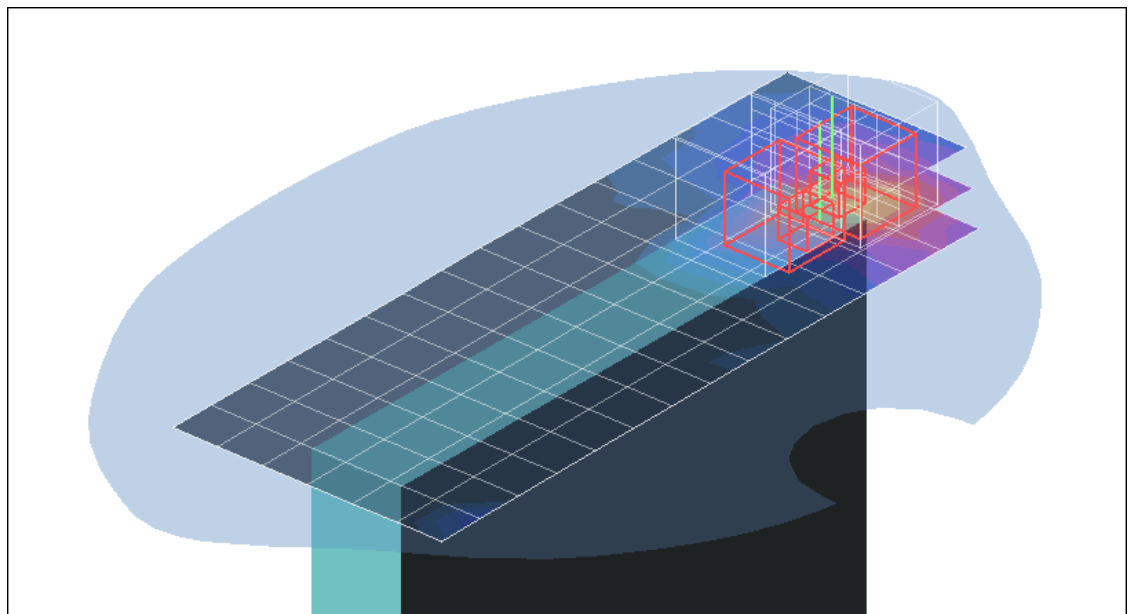
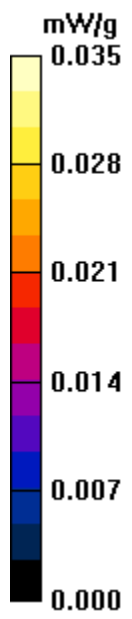
**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 1.38 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.043 W/kg

**SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.035 mW/g





Test Laboratory: Compliance Certification Services Inc.

## 802.11b Bottom Edge Touch mode open

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (10x19x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.007 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 0.414 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.017 W/kg

**SAR(1 g) = 0.00605 mW/g; SAR(10 g) = 0.00171 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

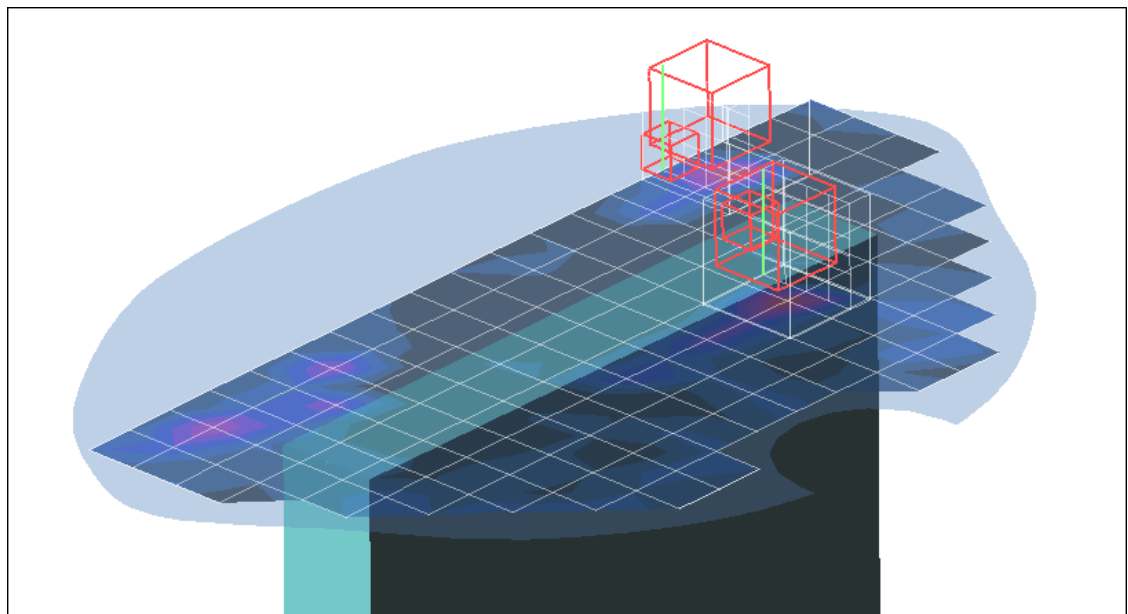
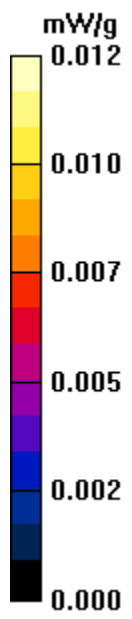
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 0.414 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.010 W/kg

**SAR(1 g) = 0.00111 mW/g; SAR(10 g) = 0.000459 mW/g**

Maximum value of SAR (measured) = 0.006 mW/g



Test Laboratory: Compliance Certification Services Inc.

## **802.11g Bottom Edge Touch mode open**

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (10x19x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.011 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

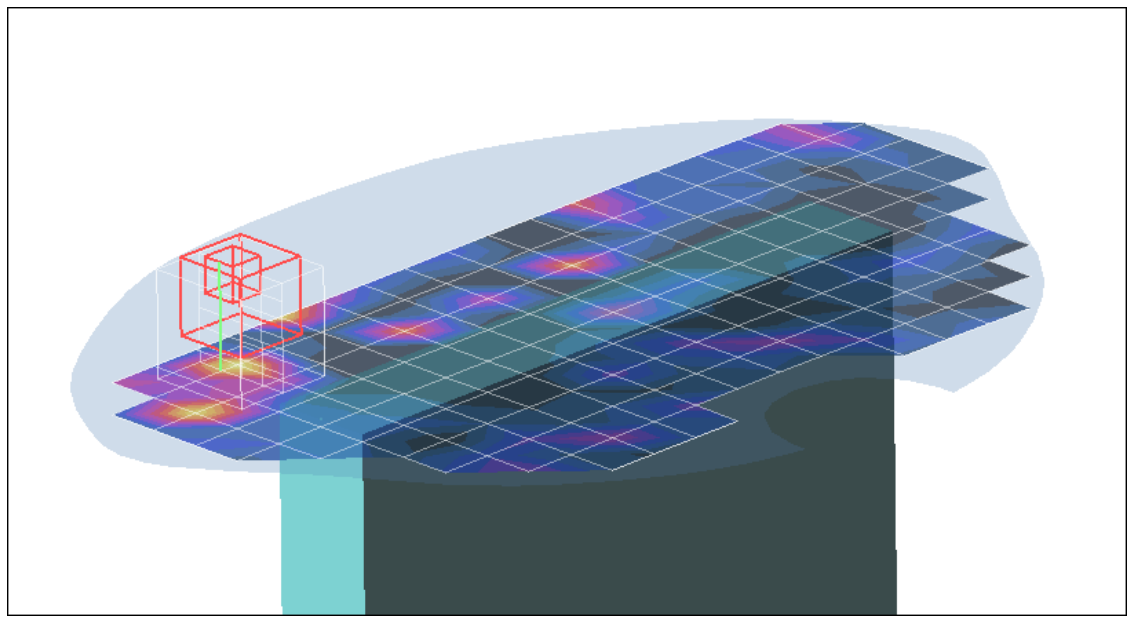
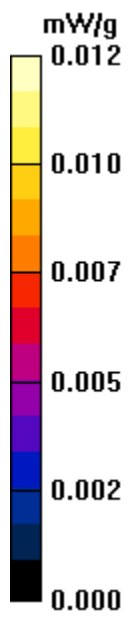
$dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 0.996 V/m; Power Drift = -0.0913 dB

Peak SAR (extrapolated) = 0.036 W/kg

**SAR(1 g) = 0.00505 mW/g; SAR(10 g) = 0.00241 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 802.11b Bottom Flat Touch mode open

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=1M bit/Area Scan (13x19x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.034 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 2.24 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.039 W/kg

**SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.028 mW/g

**Middle CH Rate=1M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

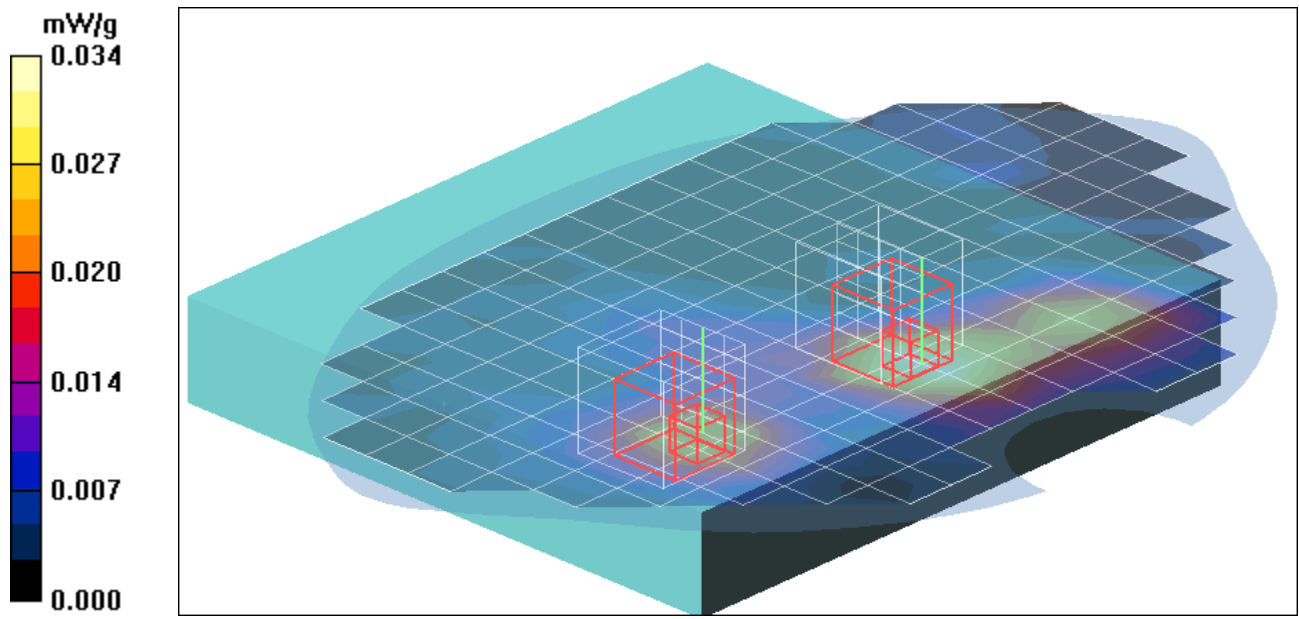
$dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 2.24 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.051 W/kg

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.035 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 802.11g Bottom Flat Touch mode open

**DUT: UM650UV1; Type: Notebook PC; Serial: N/A**

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

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.4 deg C; Liquid Temperature: 23.3 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV4 - SN3554; ConvF(6.12, 6.12, 6.12);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Middle CH Rate=6M bit/Area Scan (13x19x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.016 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 1.60 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.041 W/kg

**SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00613 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g

**Middle CH Rate=6M bit/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

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

Reference Value = 1.60 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.030 W/kg

**SAR(1 g) = 0.00715 mW/g; SAR(10 g) = 0.00401 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g

