

Test Laboratory: Compliance Certification Services Inc.

## 80211b -Horizontal Down Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature:24.6 deg C;Liquid Temperature:23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Body Horizontal Down High Ch/Area Scan (4x7x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.715 mW/g

### Body Horizontal Down High Ch/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 22.0 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 1.71 W/kg

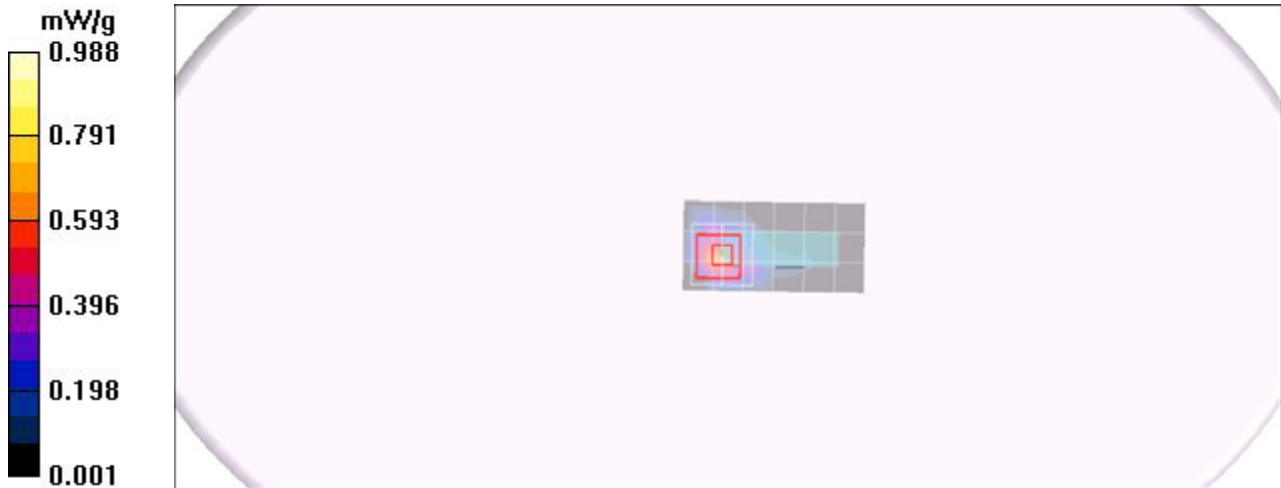
**SAR(1 g) = 0.620 mW/g; SAR(10 g) = 0.262 mW/g**

Maximum value of SAR (measured) = 0.981 mW/g

### Body Horizontal Down High Ch/Z Scan (1x1x11):

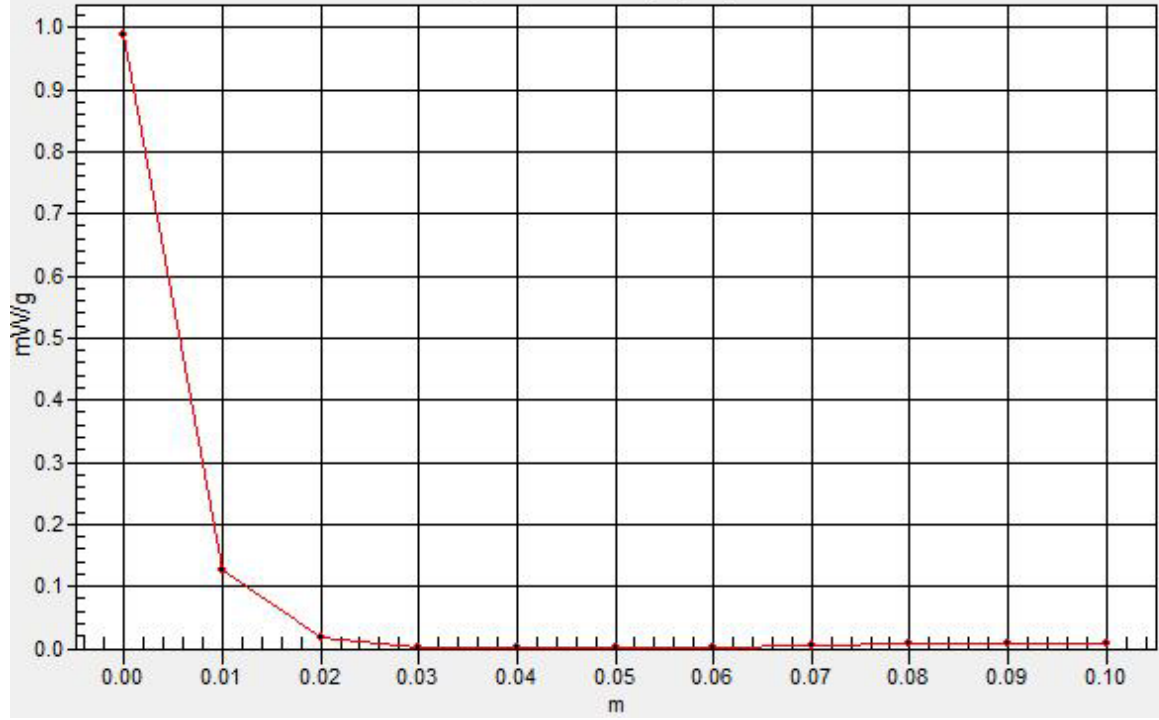
Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.988 mW/g



# SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



Test Laboratory: Compliance Certification Services Inc.

## 80211b -Horizontal Down Body AW-NU120 10mm

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

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

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Body Horizontal Down High Ch/Area Scan (4x9x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.195 mW/g

### Body Horizontal Down High Ch/Zoom Scan (7x7x9)/Cube 0:

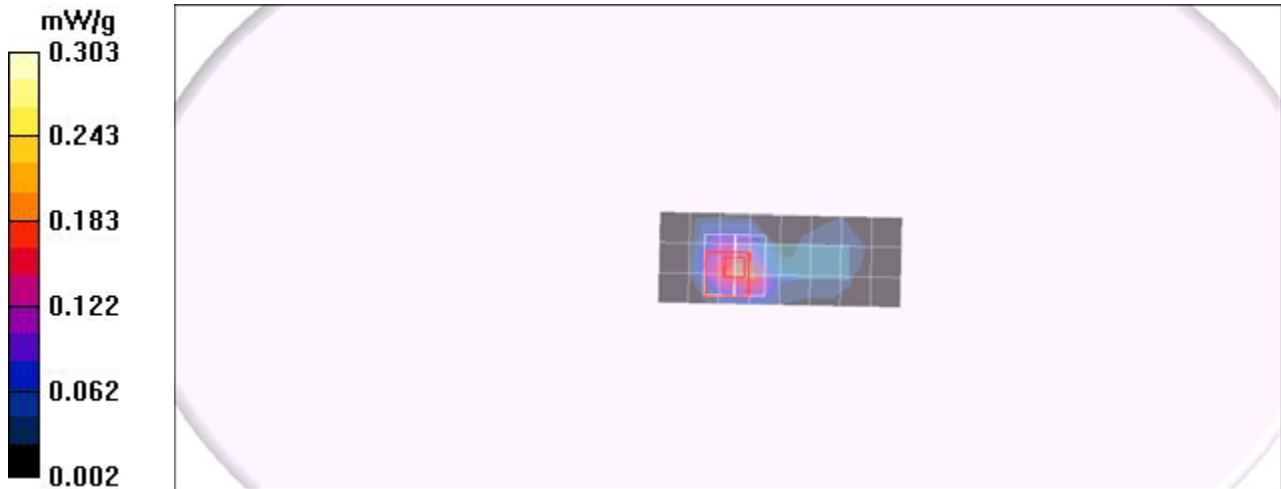
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 11.5 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.434 W/kg

**SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.088 mW/g**

Maximum value of SAR (measured) = 0.303 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211b -Horizontal Up Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

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

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature:24.6 deg C;Liquid Temperature:23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Horizontal Up High Ch/Area Scan (4x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.358 mW/g

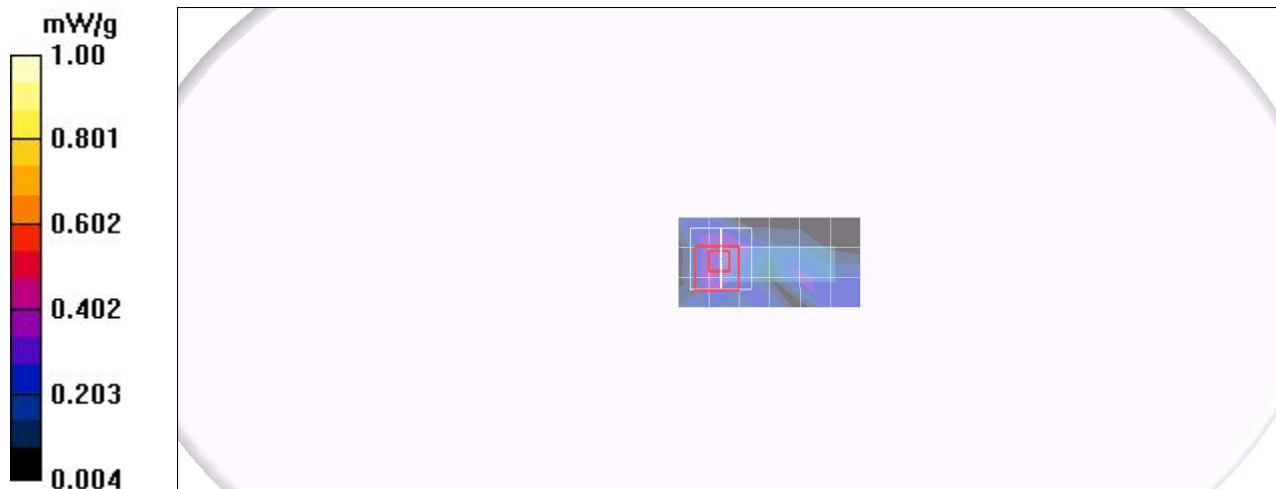
**Body Horizontal Up High Ch/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 18.5 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.173 mW/g**

Maximum value of SAR (measured) = 0.602 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211g -Horizontal Down Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

Communication System: IEEE 802.11g WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Body Horizontal Down Low Ch/Area Scan (4x7x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.244 mW/g

### Body Horizontal Down Low Ch/Zoom Scan (7x7x9)/Cube 0:

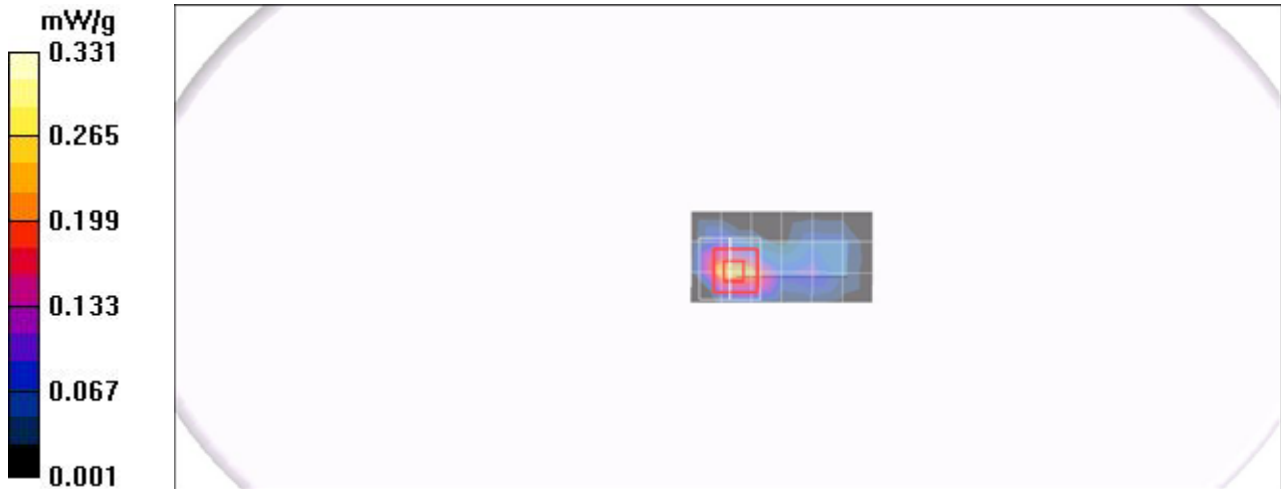
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 12.4 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = **0.213 mW/g**; SAR(10 g) = **0.084 mW/g**

Maximum value of SAR (measured) = 0.331 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211g -Horizontal Up Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

Communication System: IEEE 802.11g WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Body Horizontal Up Low Ch/Area Scan (4x7x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.140 mW/g

### Body Horizontal Up Low Ch/Zoom Scan (7x7x9)/Cube 0:

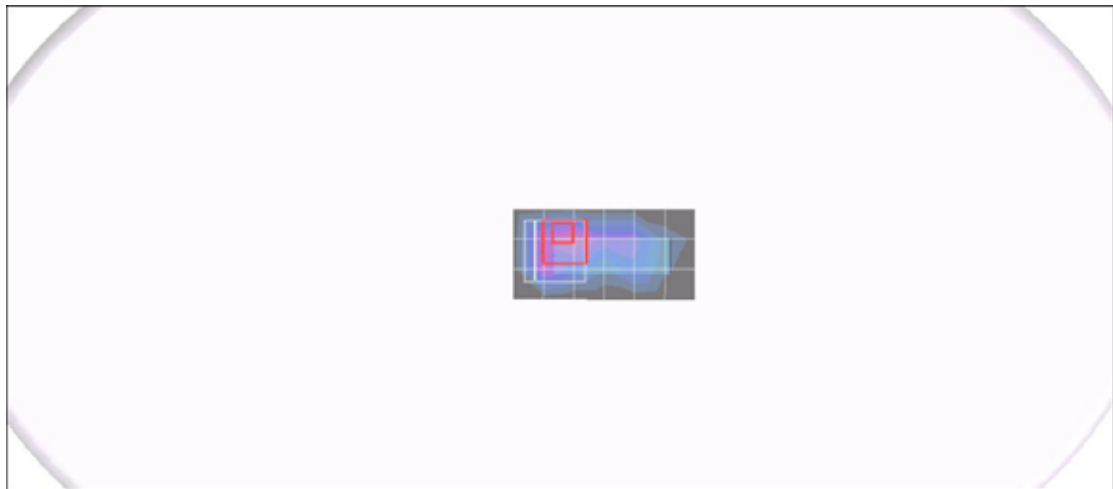
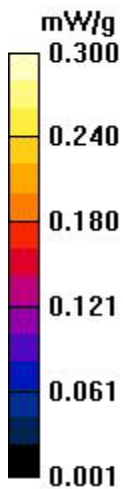
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 10.8 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.878 W/kg

**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.091 mW/g**

Maximum value of SAR (measured) = 0.420 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211b -Vertical Front Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

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

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Body Vertical Front High Ch/Area Scan (4x7x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.341 mW/g

### Body Vertical Front High Ch/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 7.06 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = **0.241 mW/g**; SAR(10 g) = **0.115 mW/g**

Maximum value of SAR (measured) = 0.407 mW/g

### Body Vertical Front High Ch/Zoom Scan (7x7x9)/Cube 1:

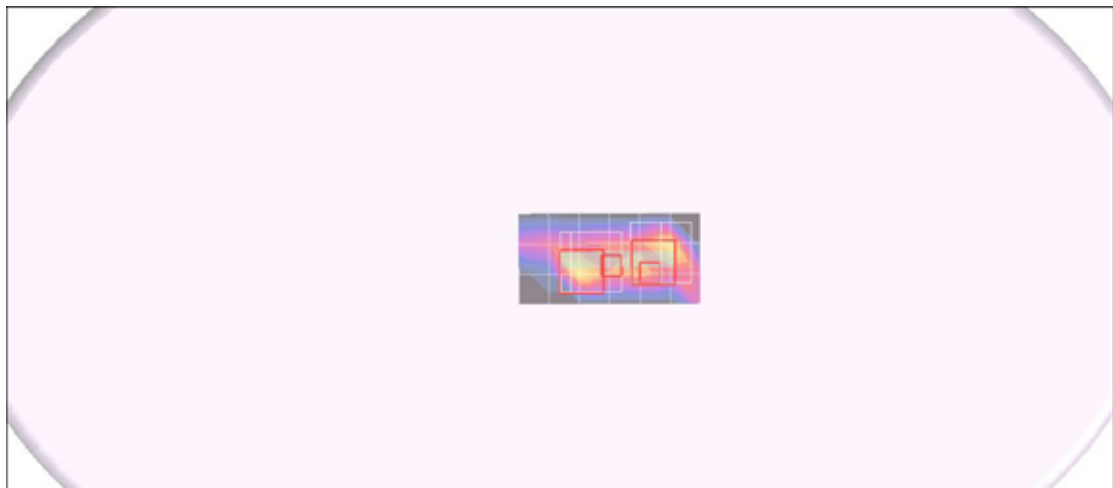
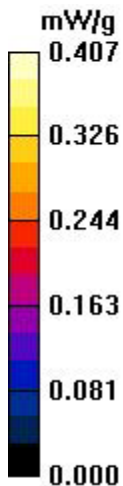
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 7.06 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.522 W/kg

SAR(1 g) = **0.092 mW/g**; SAR(10 g) = **0.042 mW/g**

Maximum value of SAR (measured) = 0.368 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211g -Vertical Back Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

Communication System: IEEE 802.11g WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Body Vertical Back Low Ch/Area Scan (4x8x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.068 mW/g

### Body Vertical Back Low Ch/Zoom Scan (7x7x9)/Cube 0:

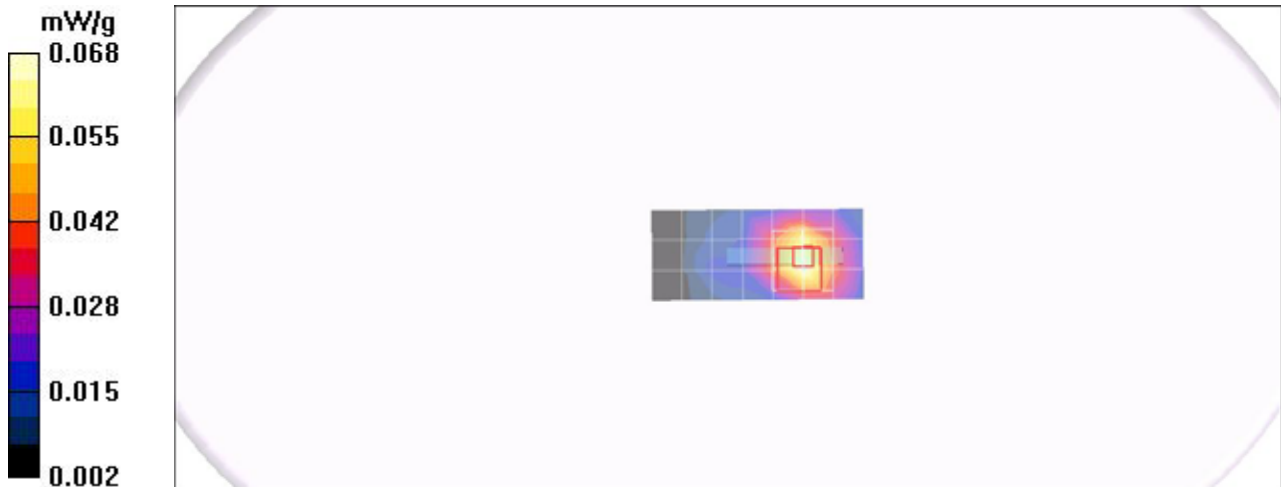
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 3.15 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.645 W/kg

**SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.035 mW/g**

Maximum value of SAR (measured) = 0.450 mW/g





Test Laboratory: Compliance Certification Services Inc.

## 80211g -Vertical Front Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

Communication System: IEEE 802.11g WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Vertical Front Low Ch/Area Scan (4x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.073 mW/g

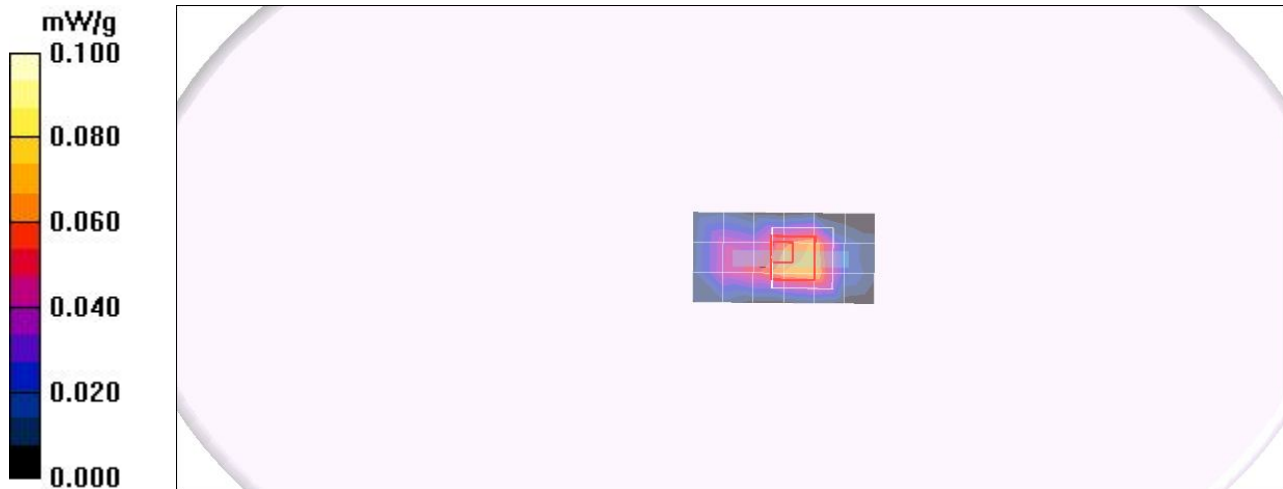
**Body Vertical Front Low Ch/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 6.59 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.067 mW/g**

Maximum value of SAR (measured) = 0.447 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211b -Vertical Back Body AW-NU120

**DUT: AW-NU120; Type: USB Dongle; Serial: R101004-01**

Communication System: IEEE bWLAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.6 deg C; Liquid Temperature: 23.6 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: DAE4 Sn558; Calibrated: 2009/7/17
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Vertical Back High Ch/Area Scan (4x8x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.343 mW/g

**Body Vertical Back High Ch/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 6.49 V/m; Power Drift = -0.159 dB  
Peak SAR (extrapolated) = 0.924 W/kg  
**SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.070 mW/g**  
Maximum value of SAR (measured) = 0.429 mW/g

**Body Vertical Back High Ch/Zoom Scan (7x7x9)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 6.49 V/m; Power Drift = -0.159 dB  
Peak SAR (extrapolated) = 1.17 W/kg  
**SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.074 mW/g**  
Maximum value of SAR (measured) = 0.382 mW/g

