

Test Laboratory: Compliance Certification Services Inc.

## 80211b Horizontal Down 1-1 antA Up90 5mm

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### High CH11 1M/Area Scan (7x8x1):

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

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

### High CH11 1M/Zoom Scan (7x7x9)/Cube 0:

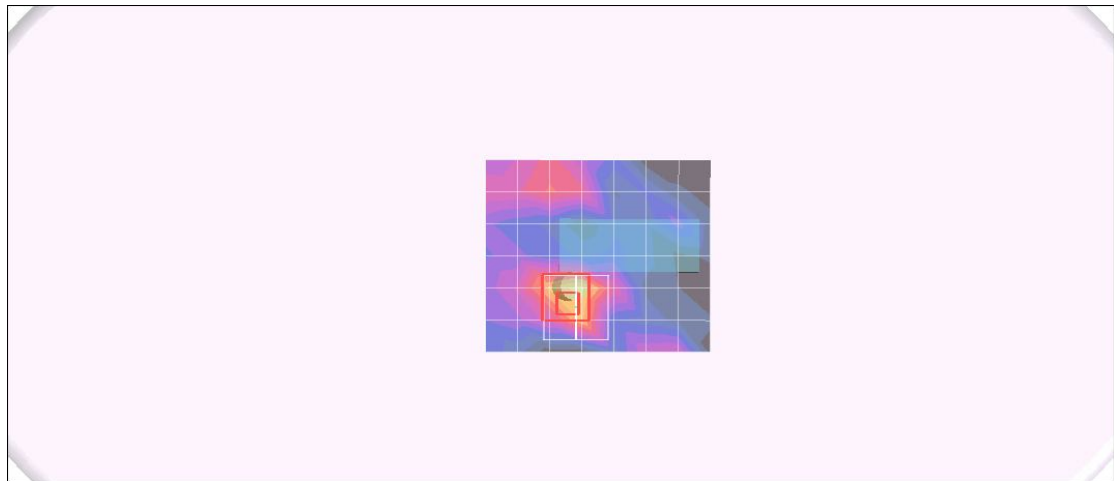
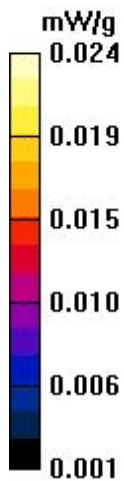
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 1.38 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.058 W/kg

SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211b Horizontal Down 1-2 antA Up90 10mm

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 1M/Area Scan (11x12x1):

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

Maximum value of SAR (measured) = 0.301 mW/g

#### High CH11 1M/Zoom Scan (7x7x9)/Cube 0:

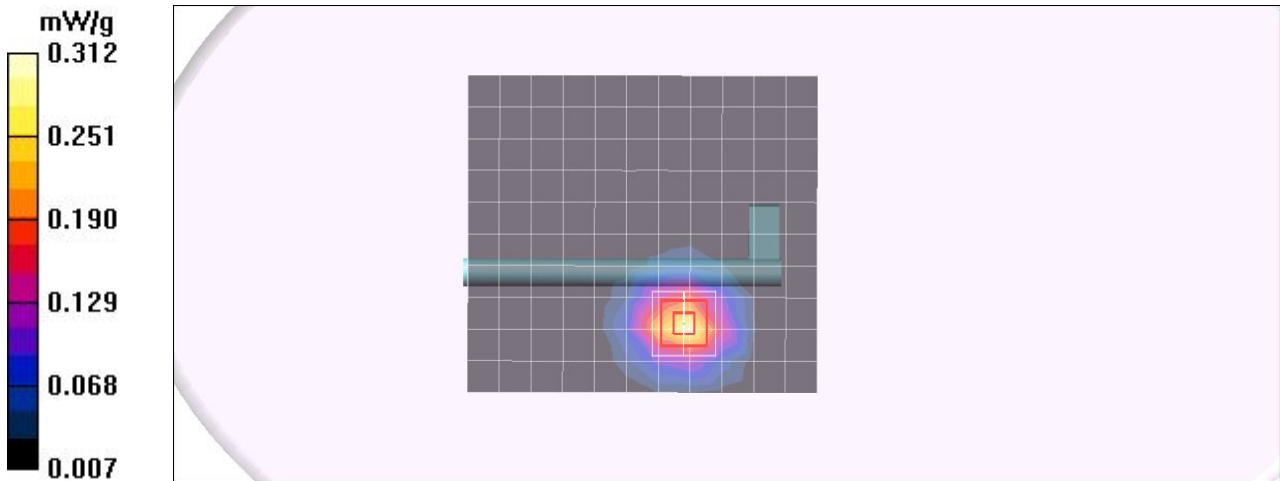
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 1.85 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.125 mW/g

Maximum value of SAR (measured) = 0.312 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211b Horizontal Down 1-1 antB Up90 5mm

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 1M/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.223 mW/g

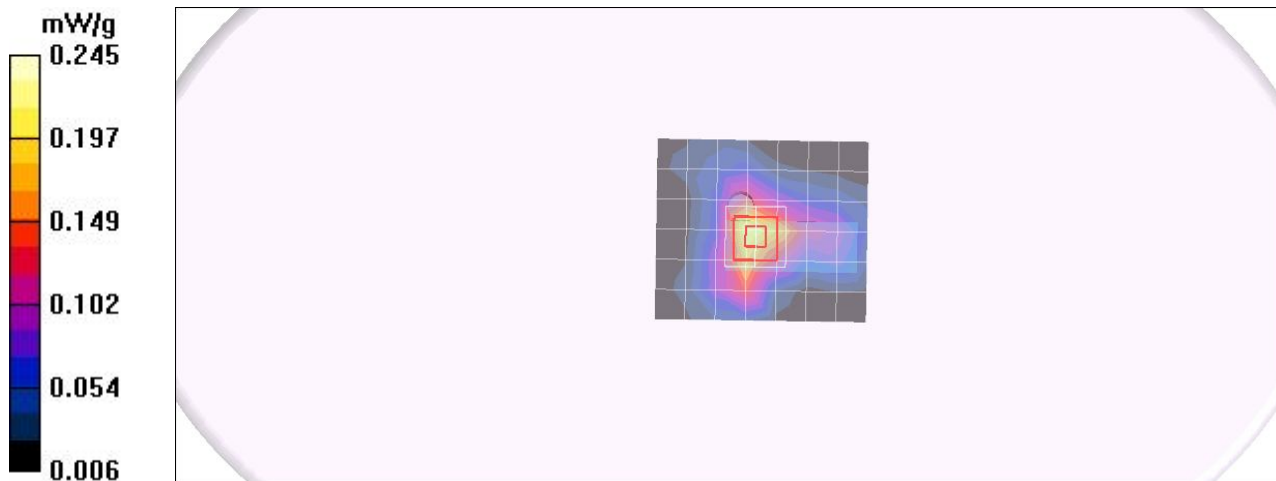
#### High CH11 1M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 7.85 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.347 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.245 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211b Horizontal Down 1-2 antB Up90 10mm

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 1M/Area Scan (11x12x1):

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

Maximum value of SAR (measured) = 0.454 mW/g

#### High CH11 1M/Zoom Scan (7x7x9)/Cube 0:

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

Reference Value = 5.80 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.731 W/kg

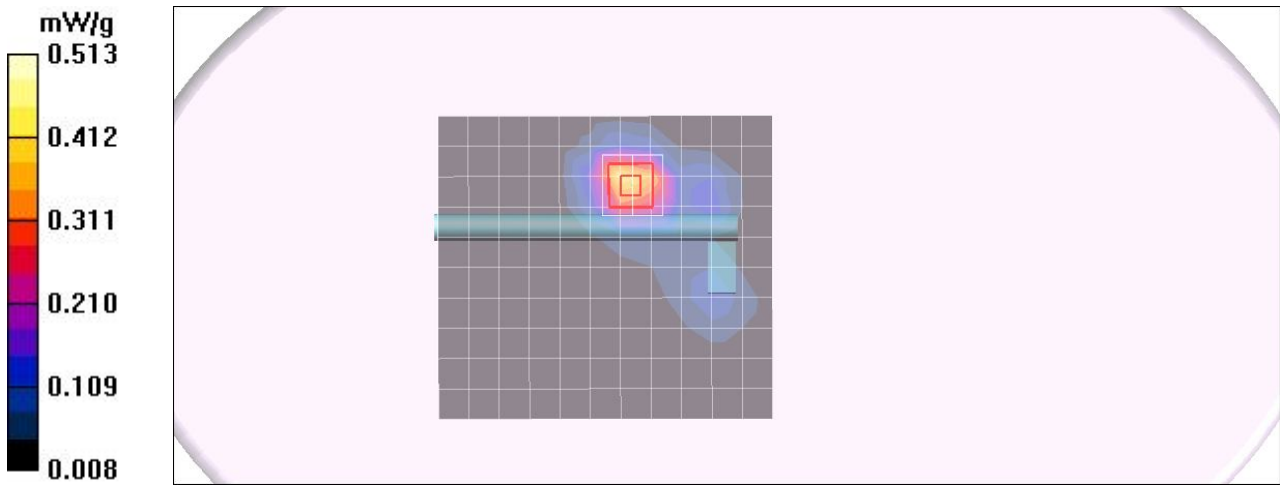
SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.513 mW/g

#### High CH11 1M/Z Scan (1x1x11):

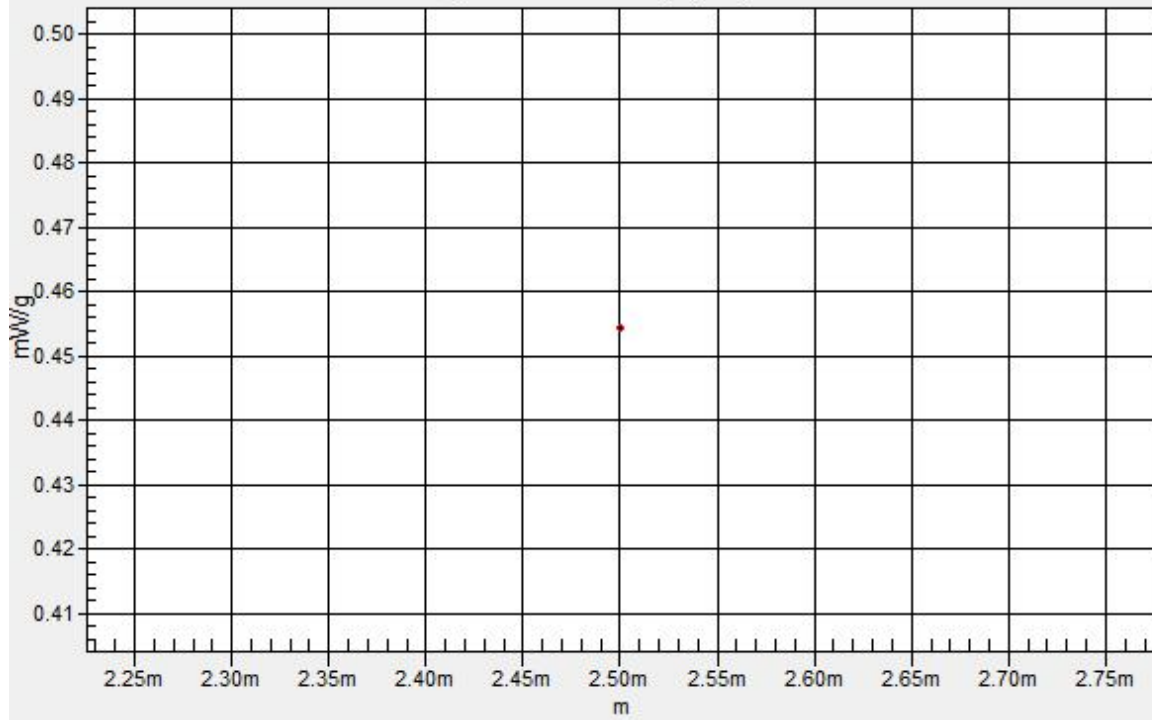
Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.147 mW/g



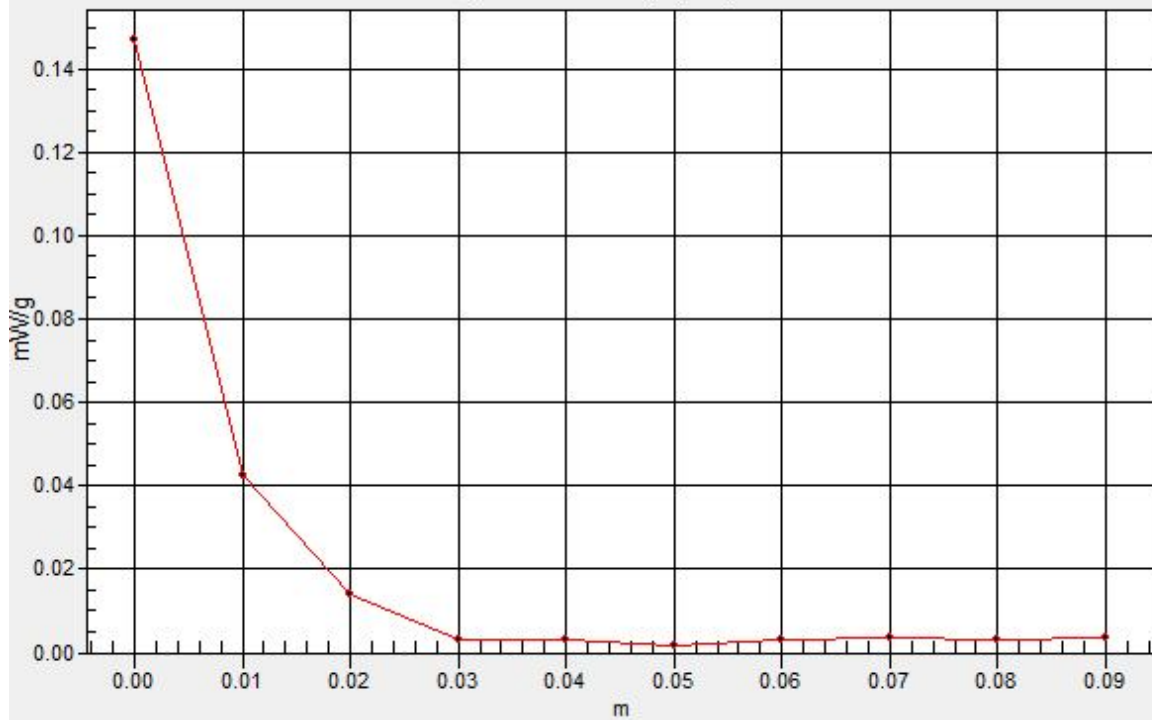
### SAR(x,y,z,f0)

SAR; Area Scan: Value Along Z, X=8, Y=6



### SAR(x,y,z,f0)

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



Test Laboratory: Compliance Certification Services Inc.

### 80211n HT20 Horizontal Down 1-1 antA Up90 5mm

Communication System: IEEE 802.11n HT20\_2.4GHz; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 1M/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

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

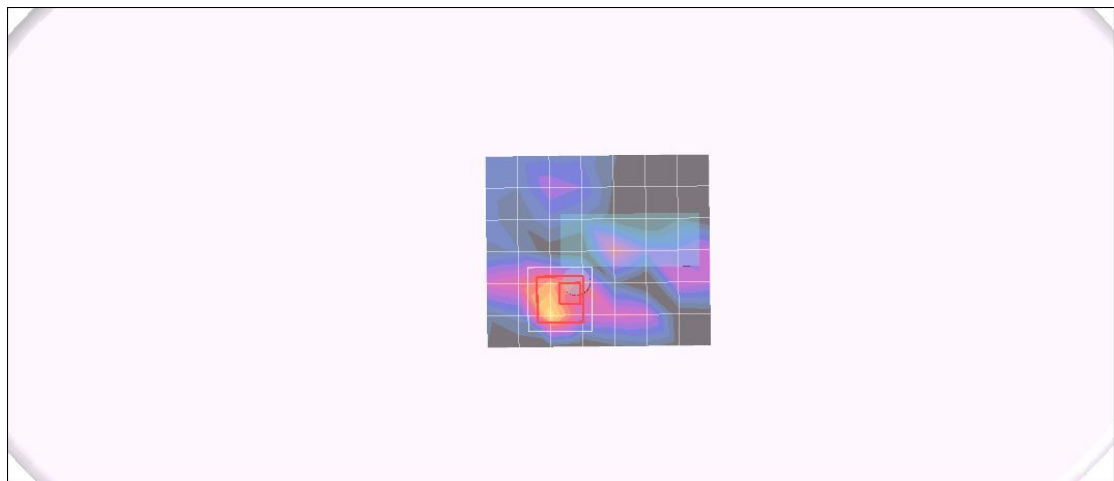
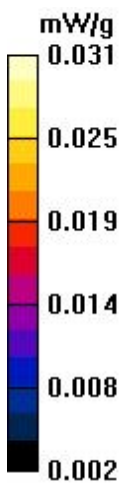
#### High CH11 1M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 0.939 V/m; Power Drift = 0.098 dB

Peak SAR (extrapolated) = 0.028 W/kg

SAR(1 g) = **0.013 mW/g**; SAR(10 g) = **0.00875 mW/g**

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



Test Laboratory: Compliance Certification Services Inc.

### 80211n HT20 Horizontal Down 1-1 antB Up90 5mm

Communication System: IEEE 802.11n HT20\_2.4GHz; Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature:24.2 deg C;Liquid Temperature:23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 1M/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.101 mW/g

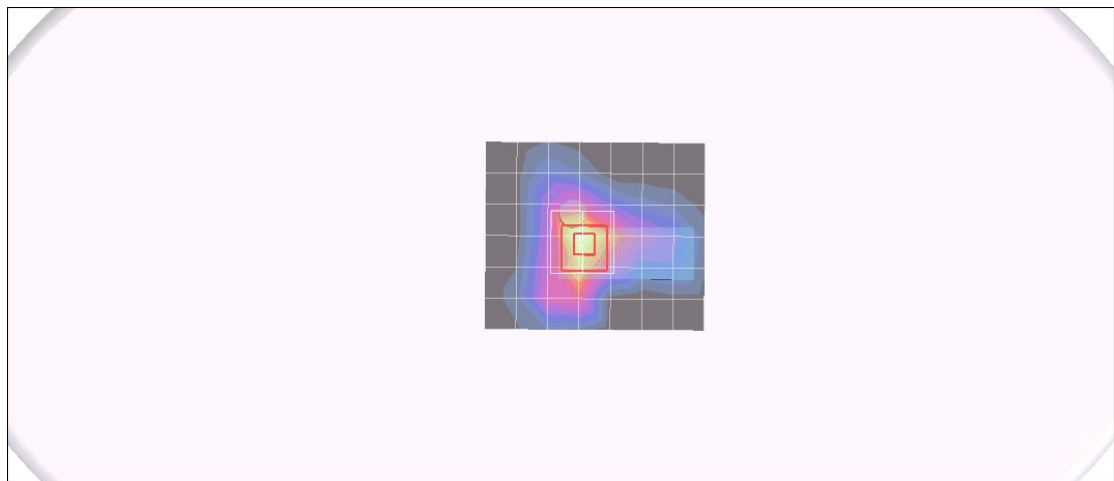
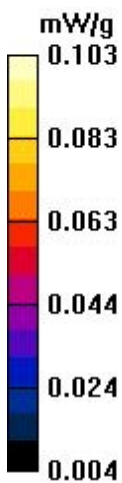
#### High CH11 1M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 5.74 V/m; Power Drift = 0.133 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = **0.078 mW/g**; SAR(10 g) = **0.044 mW/g**

Maximum value of SAR (measured) = 0.103 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211n HT20 Horizontal Down 1-2 antA Up90 10mm

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

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 6.5M/Area Scan (11x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.160 mW/g

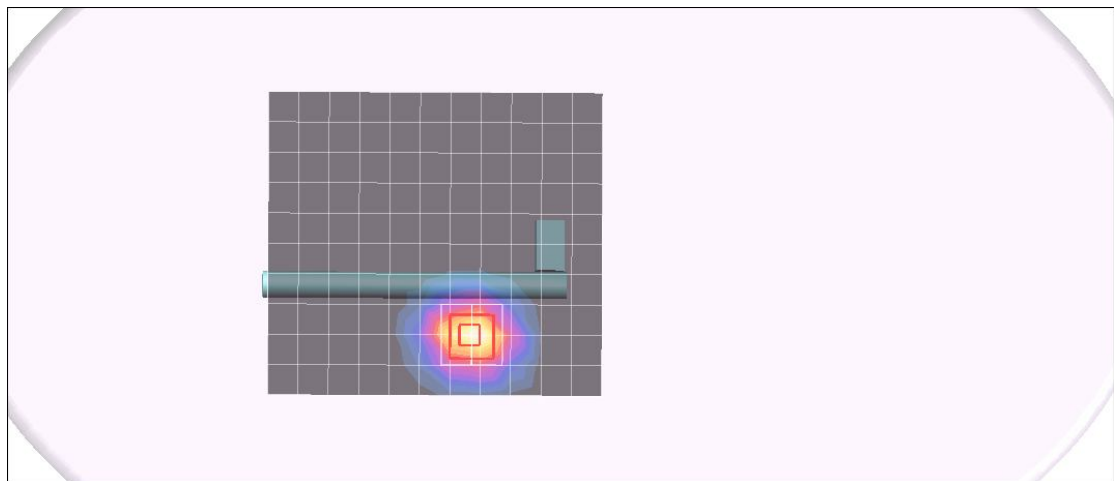
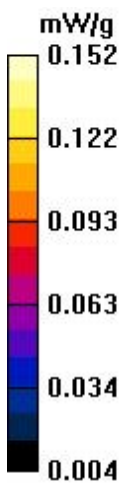
#### High CH11 6.5M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 1.50 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = **0.114 mW/g**; SAR(10 g) = **0.062 mW/g**

Maximum value of SAR (measured) = 0.152 mW/g





Test Laboratory: Compliance Certification Services Inc.

## 80211n HT20 Horizontal Down mode GW-USFang300 antB Up90 10mm

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

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C

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

### DASY4 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(6.79, 6.79, 6.79);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### High CH11 6.5M/Area Scan (11x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.205 mW/g

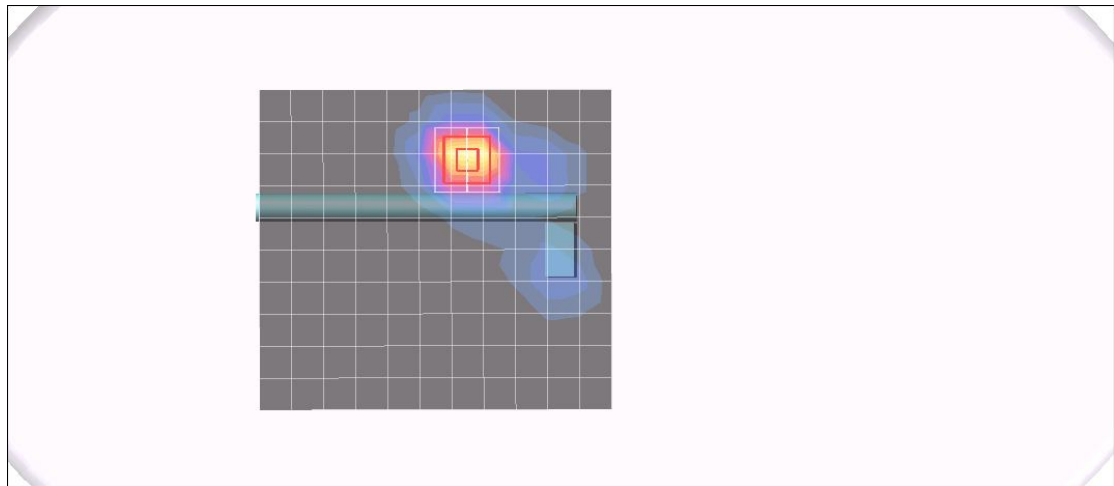
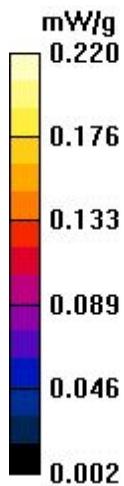
### High CH11 6.5M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 4.40 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = **0.180 mW/g**; SAR(10 g) = **0.088 mW/g**

Maximum value of SAR (measured) = 0.249 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211n HT20 Horizontal Down 1-1 antA+B Up90 5mm

Communication System: IEEE 802.11n HT20\_2.4GHz; Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature:24.2 deg C;Liquid Temperature:23.2 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(6.18, 6.18, 6.18);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 1M/Area Scan (8x8x1):

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

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

#### High CH11 1M/Zoom Scan (7x7x9)/Cube 0:

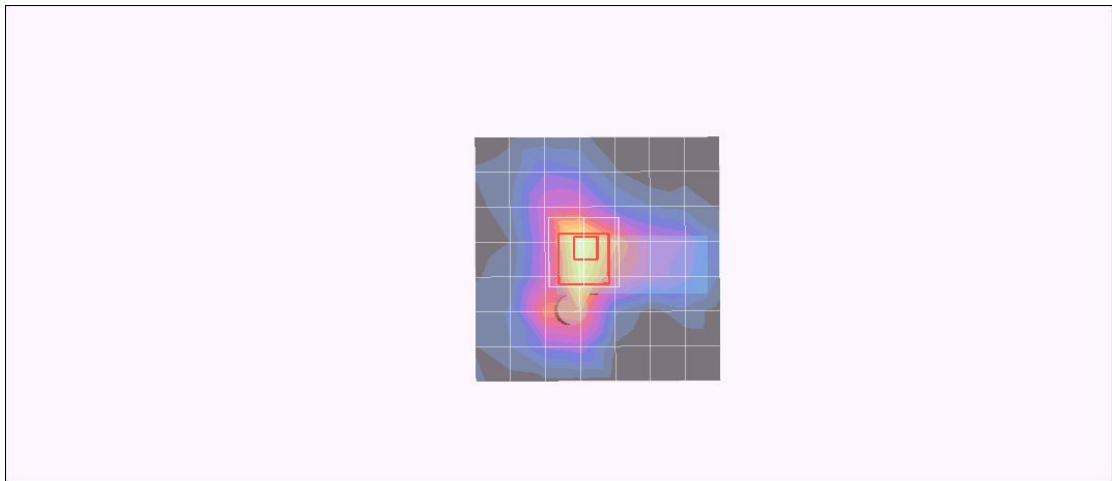
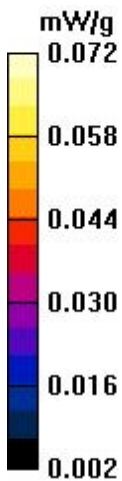
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 5.31 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.098 W/kg

SAR(1 g) = **0.054 mW/g**; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.072 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211b nHT20 Horizontal Down mode GW-USFang300 antA+B Up90 10mm

Communication System: IEEE 802.11n WLAN HT20; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C

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

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(6.79, 6.79, 6.79);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### High CH11 6.5M/Area Scan (11x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.224 mW/g

#### High CH11 6.5M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 3.60 V/m; Power Drift = -0.926 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.239 mW/g

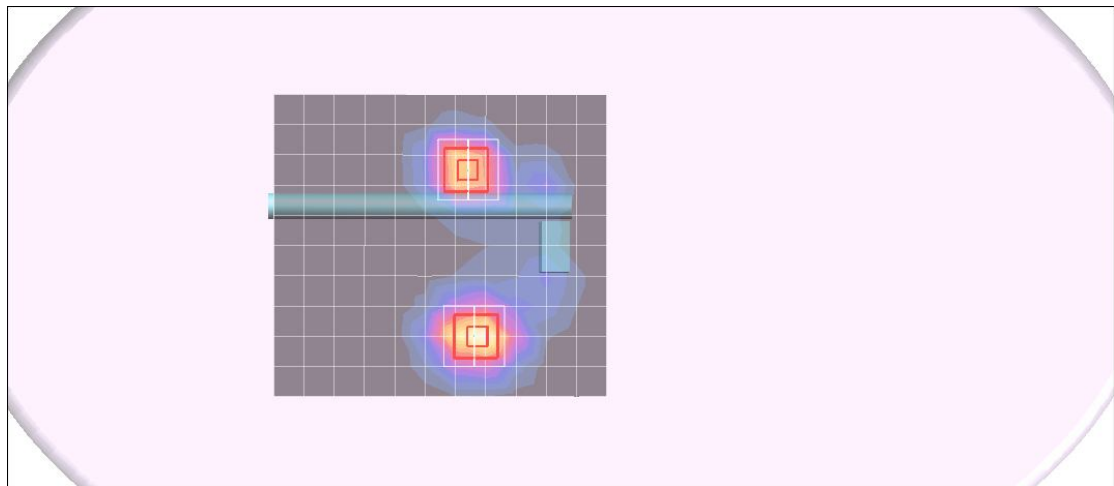
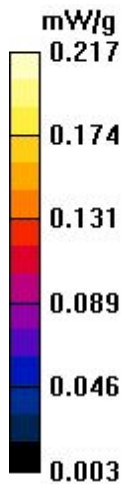
#### High CH11 6.5M/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 3.60 V/m; Power Drift = -0.926 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.085 mW/g

Maximum value of SAR (measured) = 0.217 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down 1-1 antB Up90 5mm

Communication System: IEEE 802.11 A; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.43$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.68, 3.68, 3.68);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH44 5220 6M/Area Scan (9x10x1):

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

Maximum value of SAR (measured) = 0.089 mW/g

#### CH44 5220 6M/Zoom Scan (7x7x9)/Cube 0:

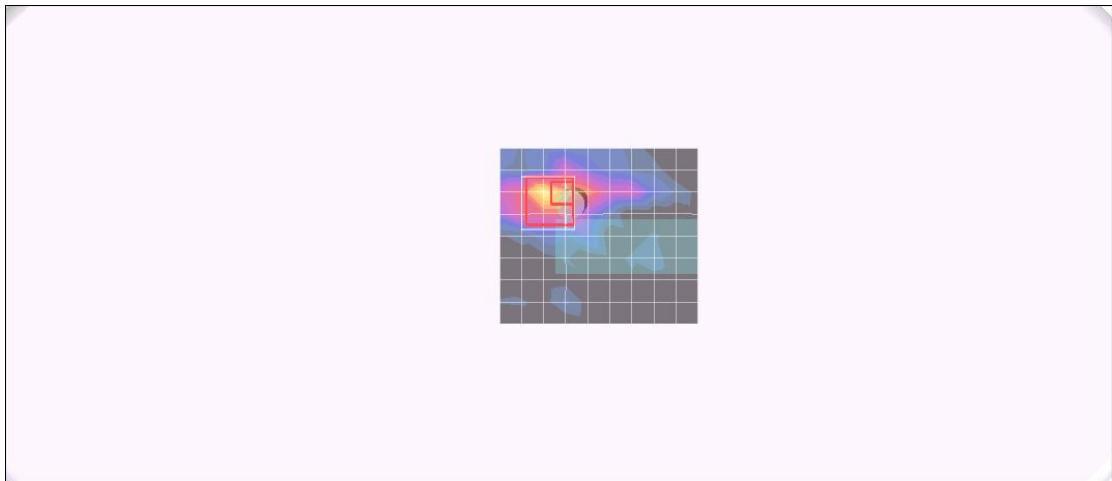
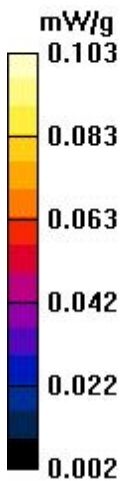
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.74 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 0.257 W/kg

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.103 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down 1-1 antB Up90 5mm

Communication System: IEEE 802.11 A; Frequency: 5745 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 6.21$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.3, 3.3, 3.3);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH149 5745 6M/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.157 mW/g

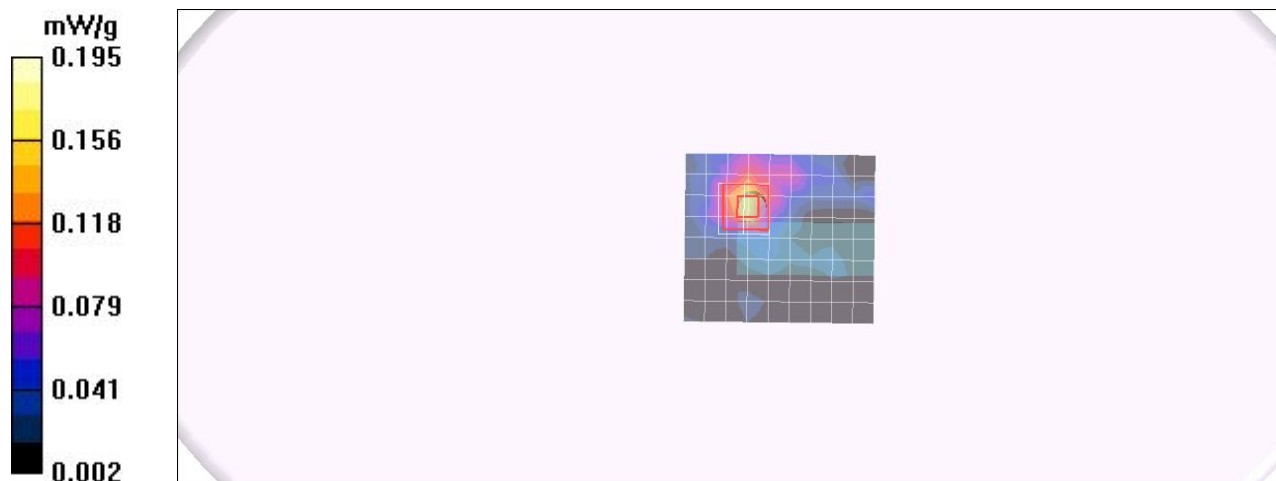
#### CH149 5745 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.59 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 0.373 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.038 mW/g

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



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down 1-1 antA Up90 5mm

Communication System: IEEE 802.11 A; Frequency: 5220 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.43$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.68, 3.68, 3.68);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH44 5220 6M/Area Scan 5 (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.061 mW/g

#### CH44 5220 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.12 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = **0.041 mW/g**; SAR(10 g) = **0.011 mW/g**

Maximum value of SAR (measured) = 0.079 mW/g

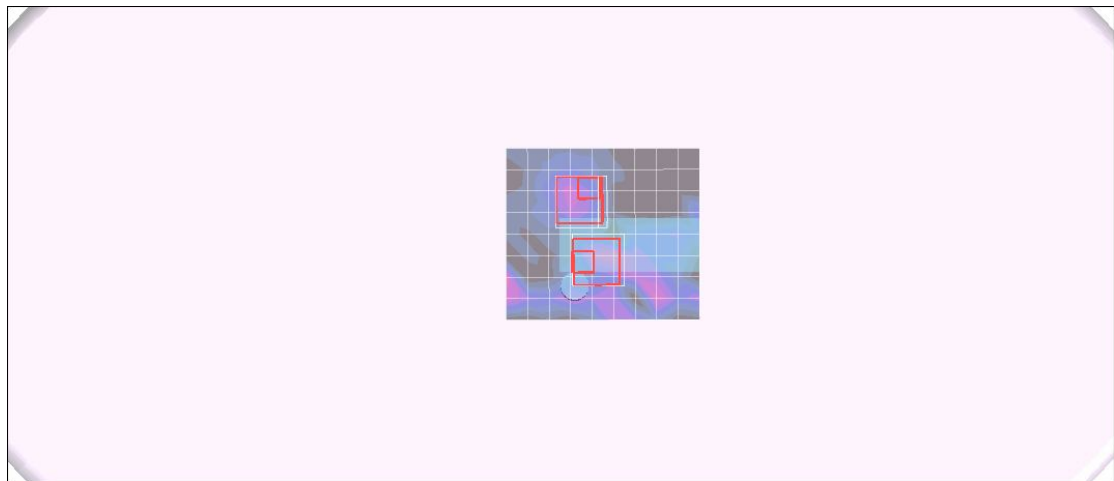
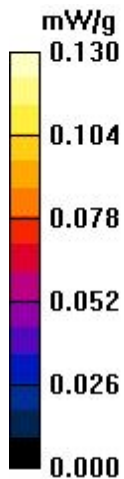
#### CH44 5220 6M/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.12 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = **0.00367 mW/g**; SAR(10 g) = **0.000583 mW/g**

Maximum value of SAR (measured) = 0.089 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down 1-1 antA Up90 5mm

Communication System: IEEE 802.11 A; Frequency: 5745 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 6.21$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

#### DASY4 Configuration:

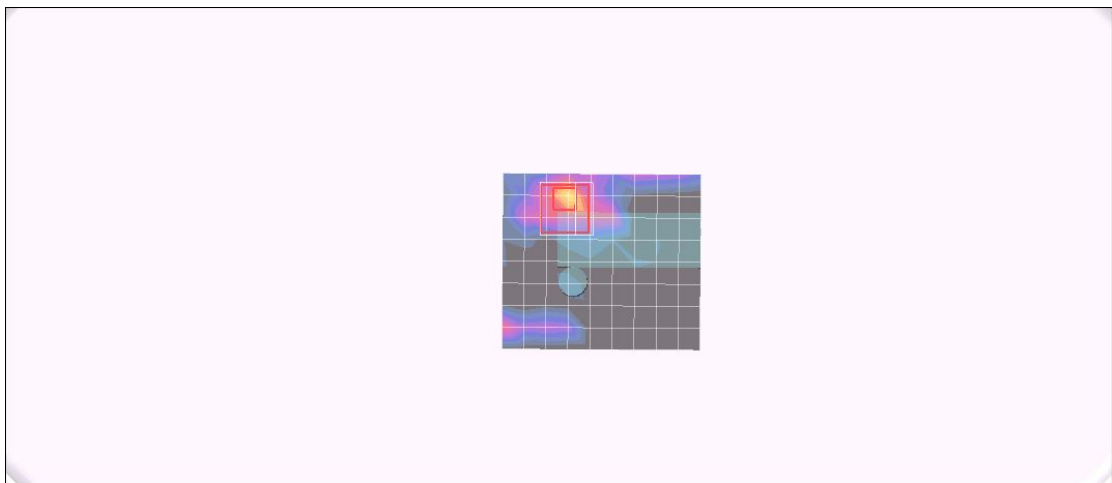
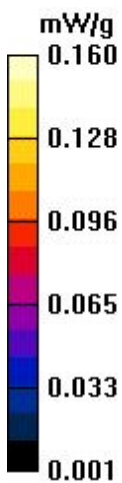
- Probe: EX3DV4 - SN3554; ConvF(3.3, 3.3, 3.3);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH149 5745 6M/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.131 mW/g

#### CH149 5745 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.06 V/m; Power Drift = 0.135 dB  
Peak SAR (extrapolated) = 0.397 W/kg  
SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.030 mW/g  
Maximum value of SAR (measured) = 0.124 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down mode GW-USFang300 antB Up90 10mm

Communication System: IEEE 802.11 A; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.41$  mho/m;  $\epsilon_r = 48.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.68, 3.68, 3.68);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH44 5220 6M/Area Scan (15x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.220 mW/g

#### CH44 5220 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.77 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.247 mW/g

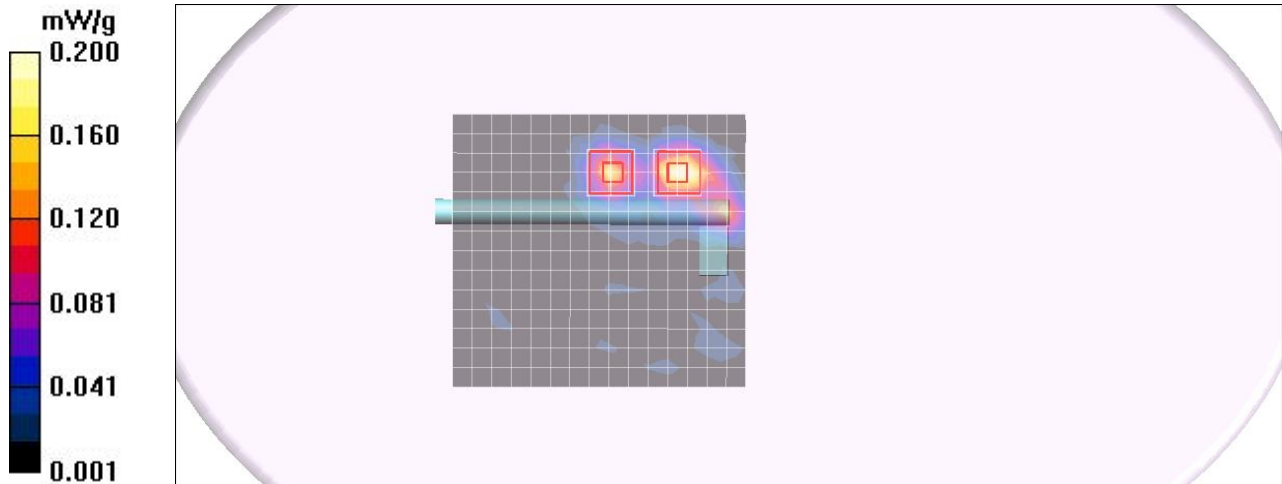
#### CH44 5220 6M/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.77 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.179 mW/g





Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down mode GW-USFang300 antB Up90 10mm

Communication System: IEEE 802.11 A; Frequency: 5745 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 6.19$  mho/m;  $\epsilon_r = 47.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

#### DASY4 Configuration:

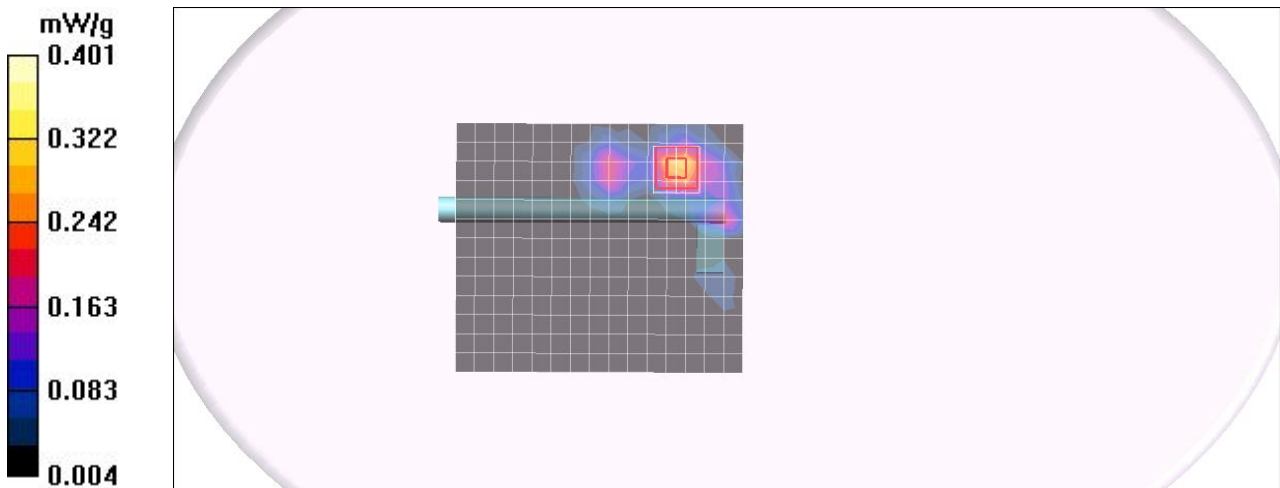
- Probe: EX3DV4 - SN3554; ConvF(3.3, 3.3, 3.3);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH149 5745 6M/Area Scan (14x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.321 mW/g

#### CH149 5745 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.97 V/m; Power Drift = 0.007 dB  
Peak SAR (extrapolated) = 0.949 W/kg  
SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.072 mW/g  
Maximum value of SAR (measured) = 0.401 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down mode GW-USFang300 antA Up90 10mm

Communication System: IEEE 802.11 A; Frequency: 5220 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.43$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.68, 3.68, 3.68);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH44 5220 6M 3/Area Scan (14x16x1): Measurement grid: dx=10mm, dy=10mm

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

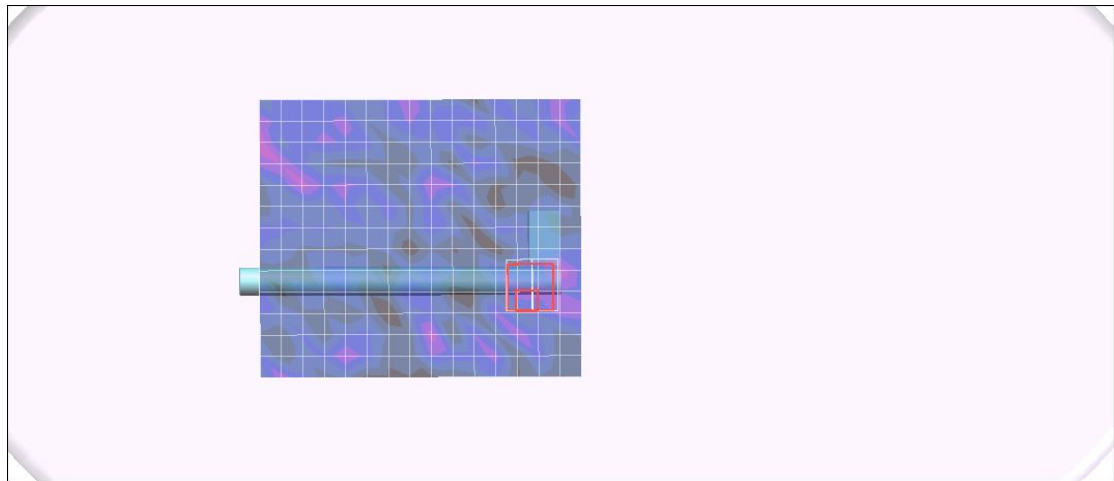
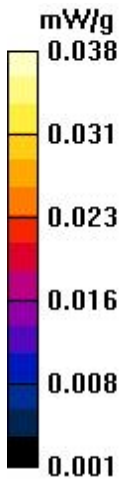
#### CH44 5220 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.02 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 0.055 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00608 mW/g

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



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down mode GW-USFang300 antA Up90 10mm

Communication System: IEEE 802.11 A; Frequency: 5745 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 6.19$  mho/m;  $\epsilon_r = 47.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

#### DASY4 Configuration:

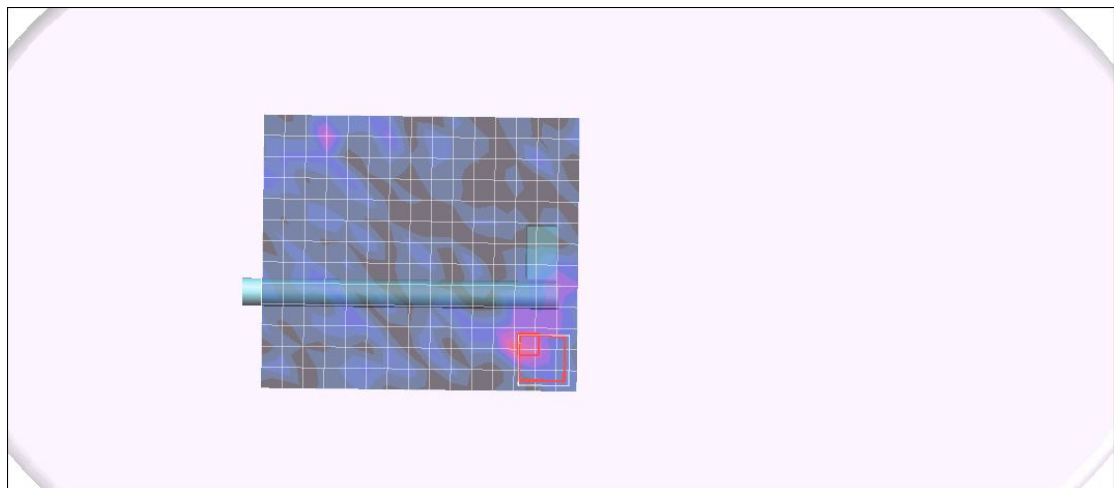
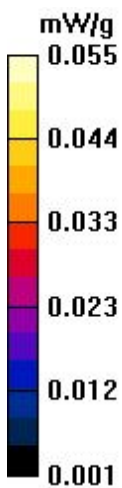
- Probe: EX3DV4 - SN3554; ConvF(3.3, 3.3, 3.3);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH149 5745 6M/Area Scan (14x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.030 mW/g

#### CH149 5745 6M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.33 V/m; Power Drift = 0.175 dB  
Peak SAR (extrapolated) = 0.115 W/kg  
SAR(1 g) = **0.031 mW/g**; SAR(10 g) = **0.00919 mW/g**  
Maximum value of SAR (measured) = 0.055 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211n HT20\_5GHz Horizontal Down 1-1 antA+B Up90 5mm

Communication System: IEEE 802.11n HT20\_5GHz; Frequency: 5825 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 6.3$  mho/m;  $\epsilon_r = 47.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

#### DASY4 Configuration:

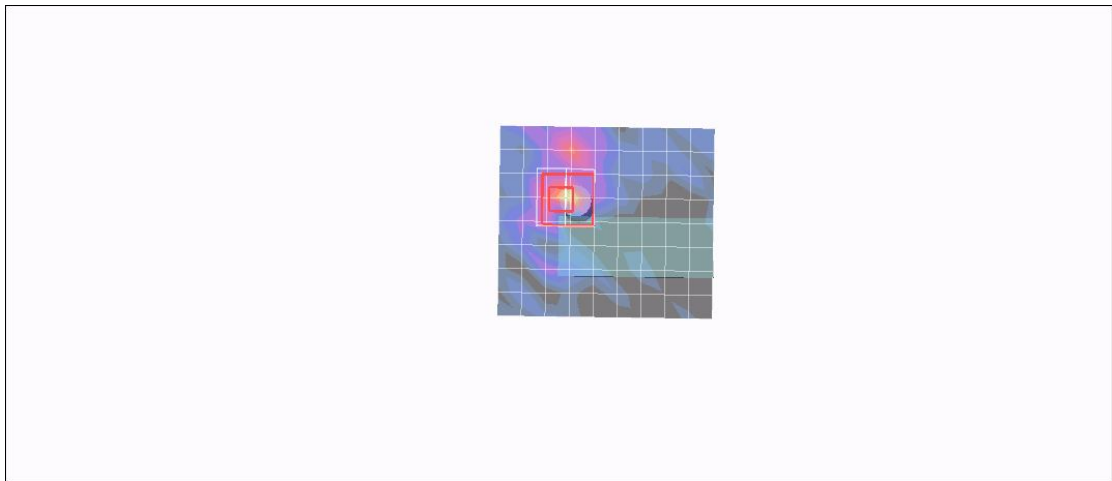
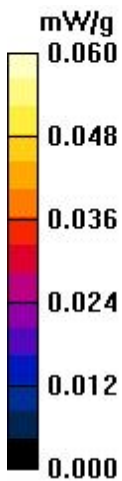
- Probe: EX3DV4 - SN3554; ConvF(3.3, 3.3, 3.3);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### CH165 5825 6.5M/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

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

#### CH165 5825 6.5M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.358 V/m; Power Drift = 0.125 dB  
Peak SAR (extrapolated) = 0.250 W/kg  
SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.015 mW/g  
Maximum value of SAR (measured) = 0.119 mW/g



Test Laboratory: Compliance Certification Services Inc.

### 80211a Horizontal Down mode GW-USFang300 antA+B Up90 10mm

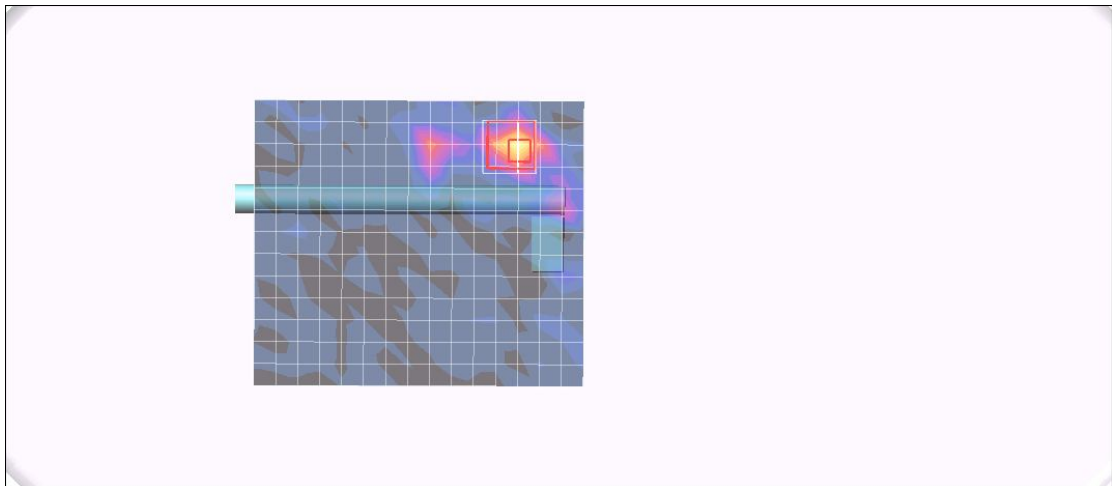
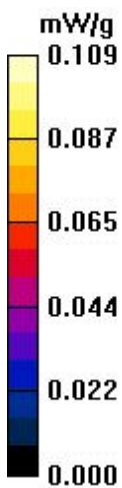
Communication System: IEEE 802.11 A; Frequency: 5825 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 6.28$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.3, 3.3, 3.3);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2011/7/26
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH165 5825 6.5M/Area Scan (14x16x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 0.101 mW/g

**CH165 5825 6.5M/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm  
Reference Value = 0.909 V/m; Power Drift = -0.149 dB  
Peak SAR (extrapolated) = 0.637 W/kg  
**SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.022 mW/g**  
Maximum value of SAR (measured) = 0.109 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211n HT20\_5GHz Horizontal Down 1-1 antA+B Up90 5mm

Communication System: IEEE 802.11n HT20\_5GHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.43$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.68, 3.68, 3.68);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2011/12/23
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### CH44 5220 6.5M/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

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

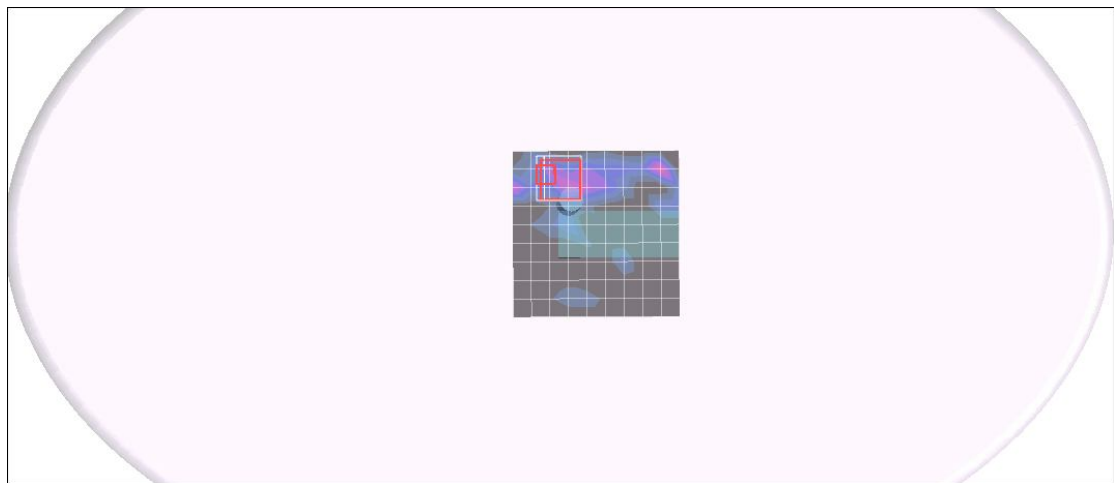
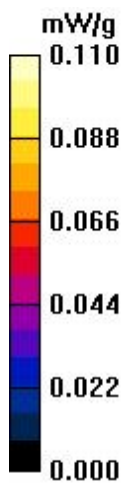
### CH44 5220 6.5M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.713 V/m; Power Drift = 0.094 dB

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.00743 mW/g

Maximum value of SAR (measured) = 0.076 mW/g



Test Laboratory: Compliance Certification Services Inc.

## 80211n HT20 Horizontal Down 1-2 antA Up90 10mm

Communication System: IEEE 802.11n HT20\_5GHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.43$  mho/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 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(3.68, 3.68, 3.68);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2011/12/23
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### CH44 5220 6.5M/Area Scan (13x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.082 mW/g

### CH44 5220 6.5M/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.799 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.078 mW/g

### CH44 5220 6.5M/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.799 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.094 mW/g

