

### System Check\_Body\_2450MHz\_111122

#### DUT: Dipole 2450 MHz

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

Medium: MSL\_2450\_111122 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.973$  mho/m;  $\epsilon_r =$

$52.342$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3270; ConvF(4.28, 4.28, 4.28); Calibrated: 2011/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1244; Calibrated: 2011/1/7
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP1127
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 15.305 mW/g

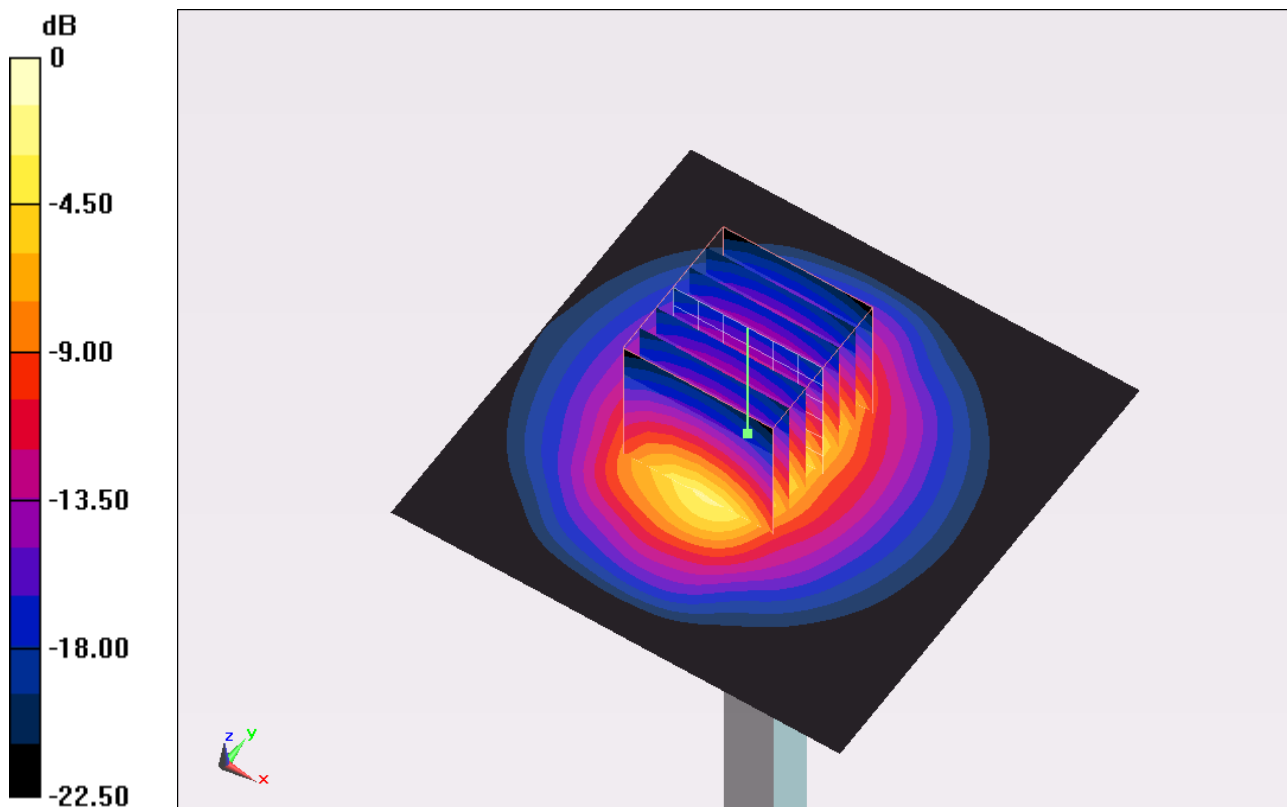
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.676 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 30.251 W/kg

**SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.13 mW/g**

Maximum value of SAR (measured) = 15.566 mW/g



0 dB = 15.570mW/g

## **System Check\_Body\_2450MHz\_111126**

### **DUT: Dipole 2450 MHz**

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

Medium: MSL\_2450\_111126 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.3 ; Liquid Temperature : 21.3

#### **DASY5 Configuration:**

- Probe: ET3DV6 - SN1788; ConvF(4.01, 4.01, 4.01); Calibrated: 2011/9/28
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/6/20
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.1 mW/g

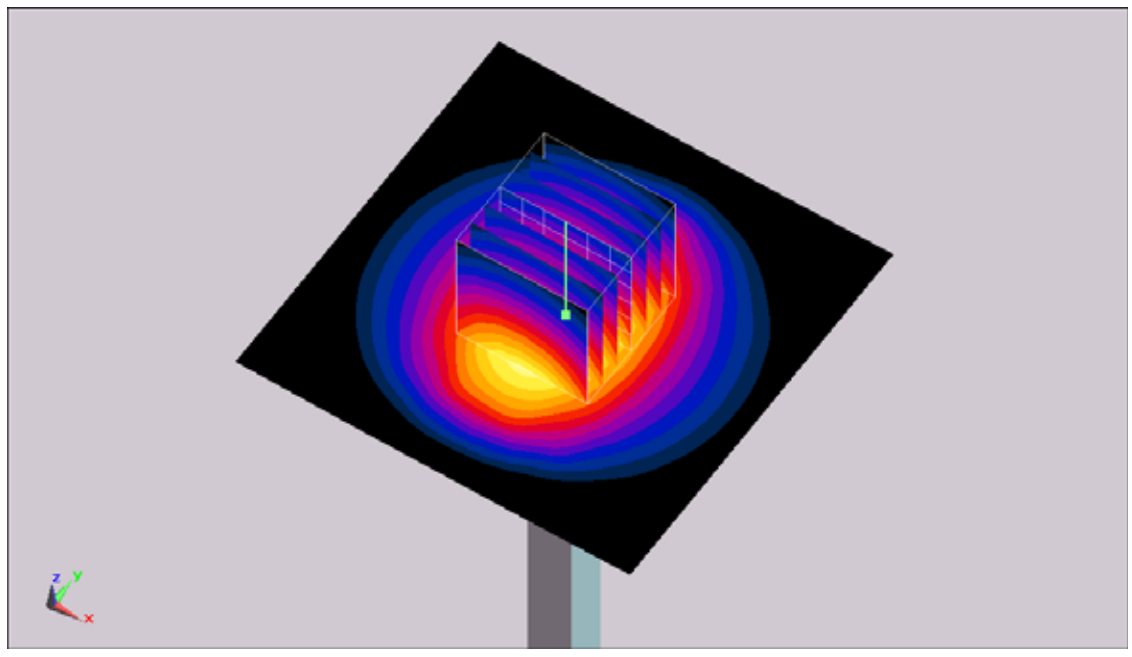
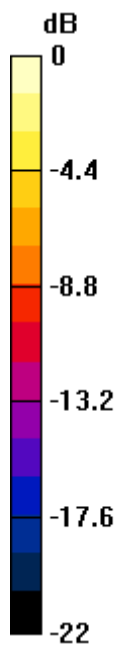
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.4 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 32.1 W/kg

**SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.01 mW/g**

Maximum value of SAR (measured) = 14.7 mW/g



0 dB = 14.7mW/g

## System Check\_Body\_5200MHz\_111123

### DUT: Dipole 5GHz

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111123 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.325$  mho/m;  $\epsilon_r = 48.639$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.22, 4.22, 4.22); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP1127
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 34.912 mW/g

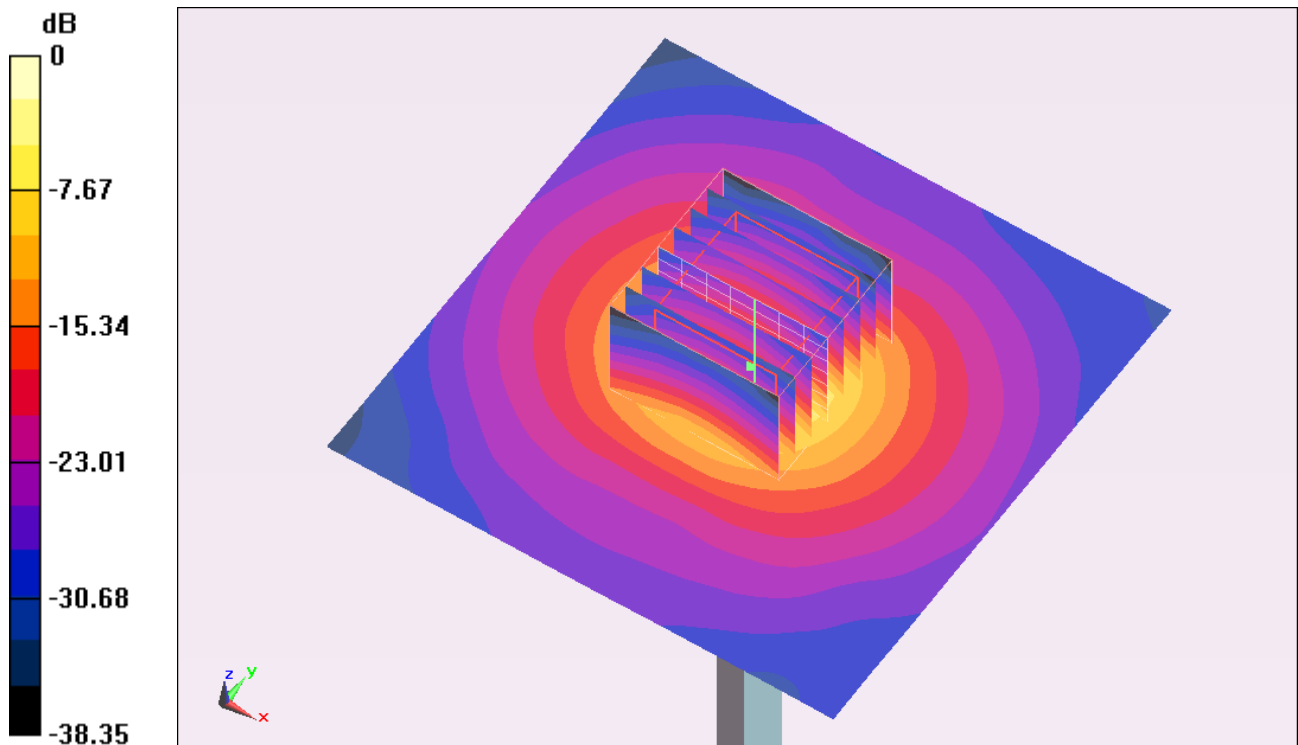
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 85.136 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 66.874 W/kg

**SAR(1 g) = 19.5 mW/g; SAR(10 g) = 5.41 mW/g**

Maximum value of SAR (measured) = 33.269 mW/g



0 dB = 33.270mW/g

## **System Check\_Body\_5200MHz\_111126**

### **DUT: Dipole 5GHz**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111126 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.32$  mho/m;  $\epsilon_r = 47.5$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.2 ; Liquid Temperature : 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.22, 4.22, 4.22); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 33.9 mW/g

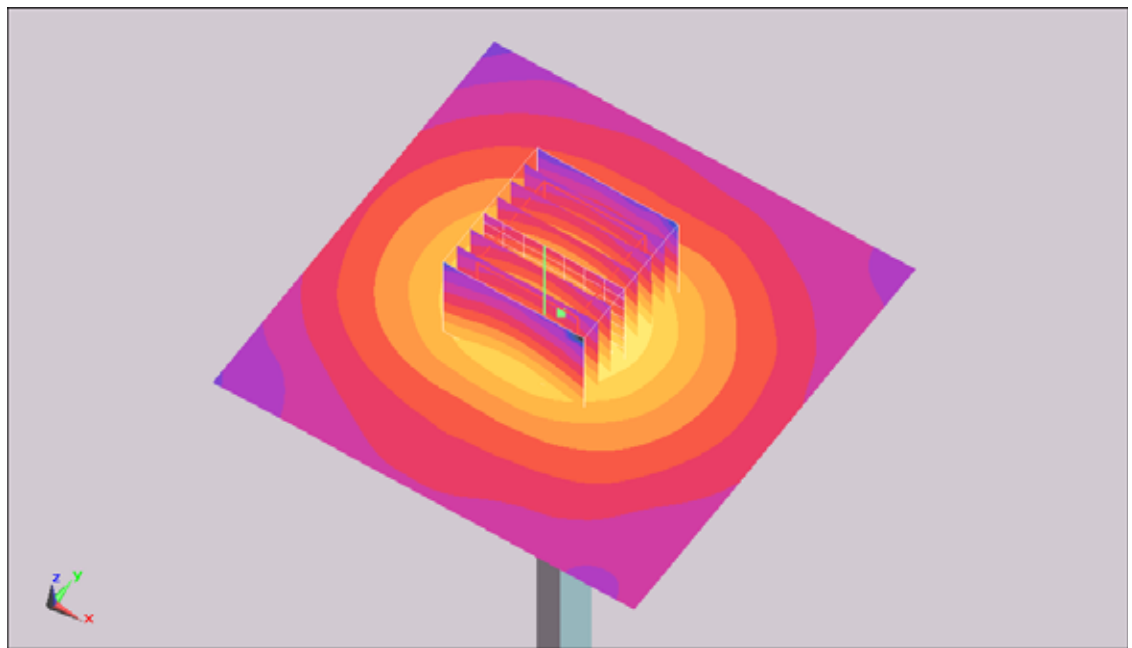
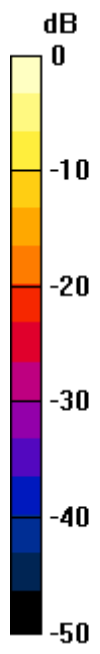
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 82.3 V/m; Power Drift = -0.00192 dB

Peak SAR (extrapolated) = 59.7 W/kg

**SAR(1 g) = 18.6 mW/g; SAR(10 g) = 5.33 mW/g**

Maximum value of SAR (measured) = 31 mW/g



0 dB = 31mW/g

## **System Check\_Body\_5200MHz\_111127**

### **DUT: Dipole 5GHz**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111127 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.14$  mho/m;  $\epsilon_r = 47.5$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.4 ; Liquid Temperature : 21.4

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3792; ConvF(4.22, 4.22, 4.22); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 32.8 mW/g

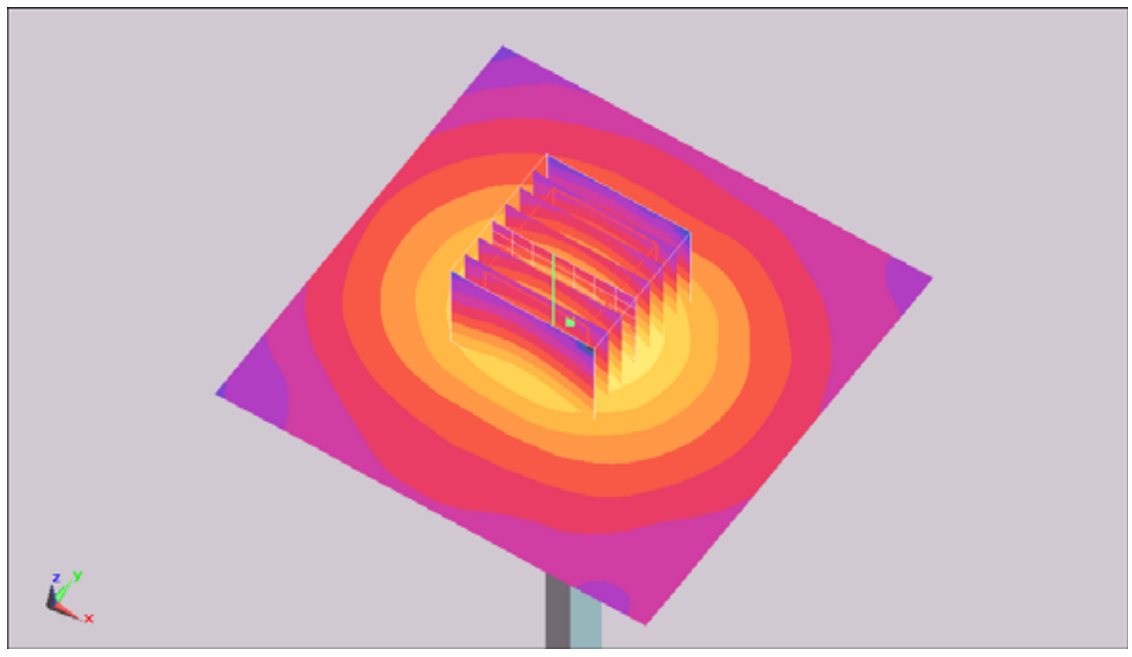
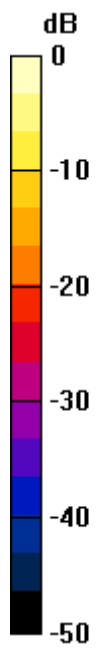
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 82.2 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 57.7 W/kg

**SAR(1 g) = 18 mW/g; SAR(10 g) = 5.15 mW/g**

Maximum value of SAR (measured) = 30 mW/g



0 dB = 30mW/g



## **System Check\_Body\_5500MHz\_111126**

### **DUT: Dipole 5GHz**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111126 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.2 ; Liquid Temperature : 21.2

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3792; ConvF(3.76, 3.76, 3.76); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 38 mW/g

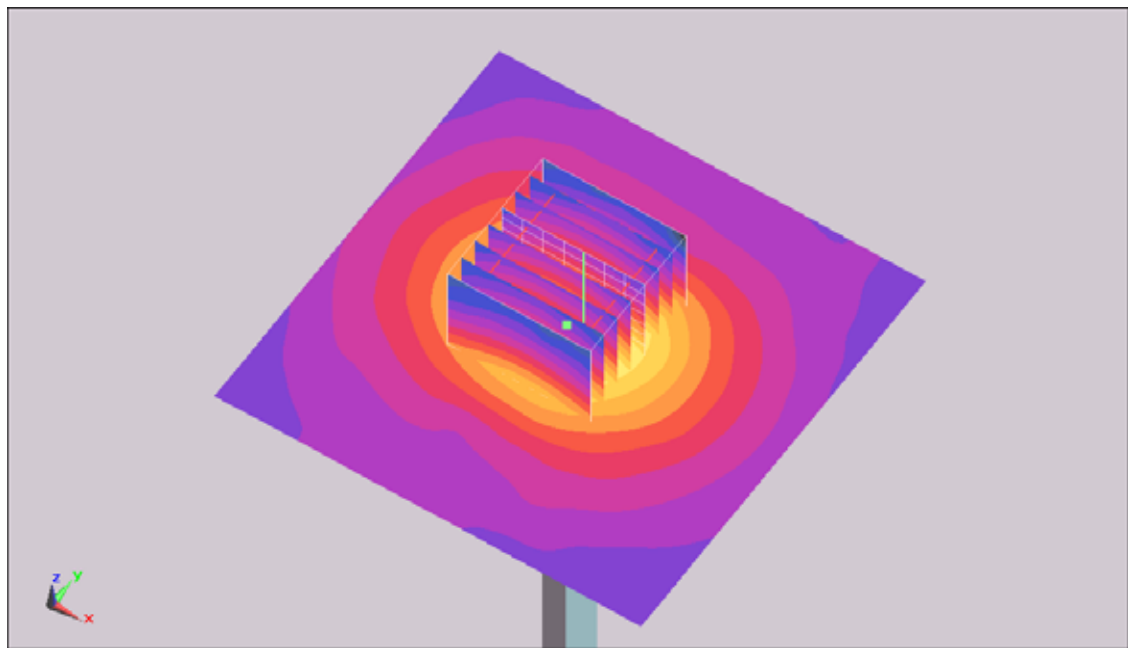
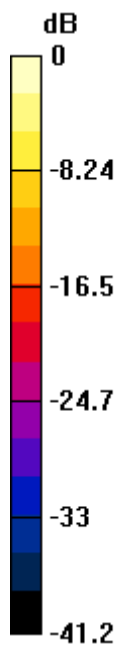
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 83.2 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 61.7 W/kg

**SAR(1 g) = 19.5 mW/g; SAR(10 g) = 5.55 mW/g**

Maximum value of SAR (measured) = 34.5 mW/g



0 dB = 34.5mW/g

**System Check\_Body\_5500MHz\_111127**

**DUT: Dipole 5GHz**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111127 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.52$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 ; Liquid Temperature : 21.4

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3792; ConvF(3.76, 3.76, 3.76); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 36.7 mW/g

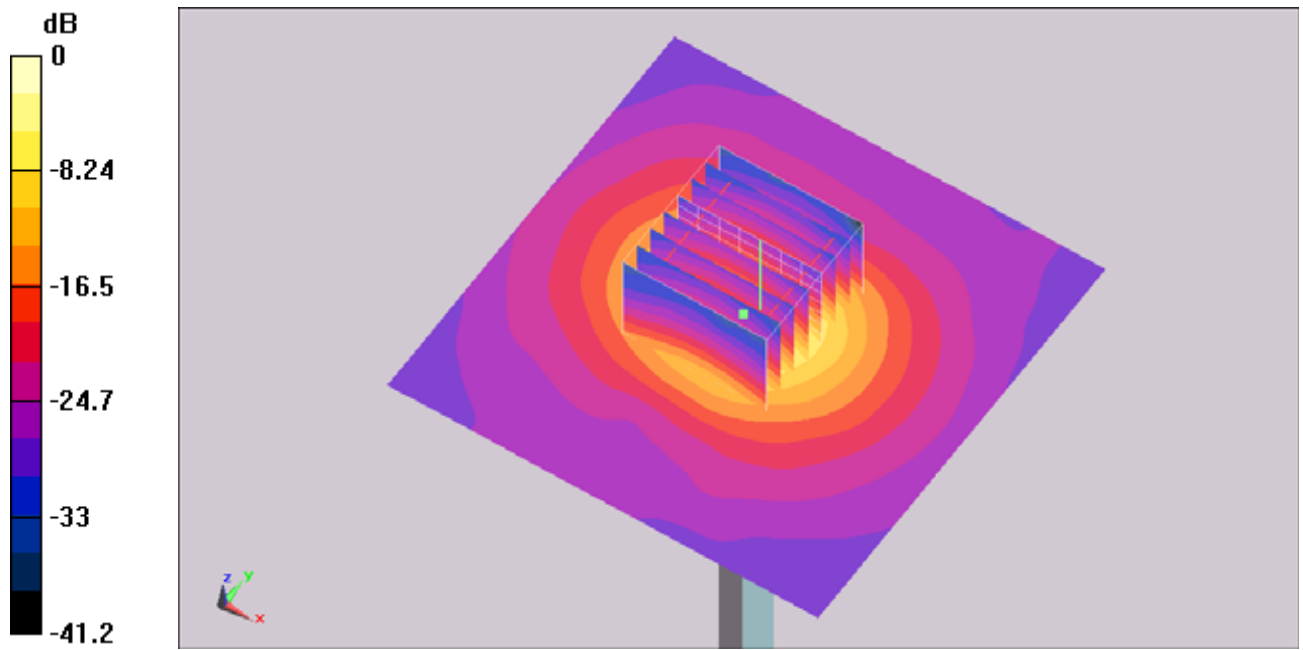
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 83.24 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 59.6 W/kg

**SAR(1 g) = 18.8 mW/g; SAR(10 g) = 5.36 mW/g**

Maximum value of SAR (measured) = 33.3 mW/g



0 dB = 33.3mW/g

## **System Check\_Body\_5800MHz\_111126**

### **DUT: Dipole 5GHz**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111126 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.22$  mho/m;  $\epsilon_r = 46.4$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.2 ; Liquid Temperature : 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(3.78, 3.78, 3.78); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 32.5 mW/g

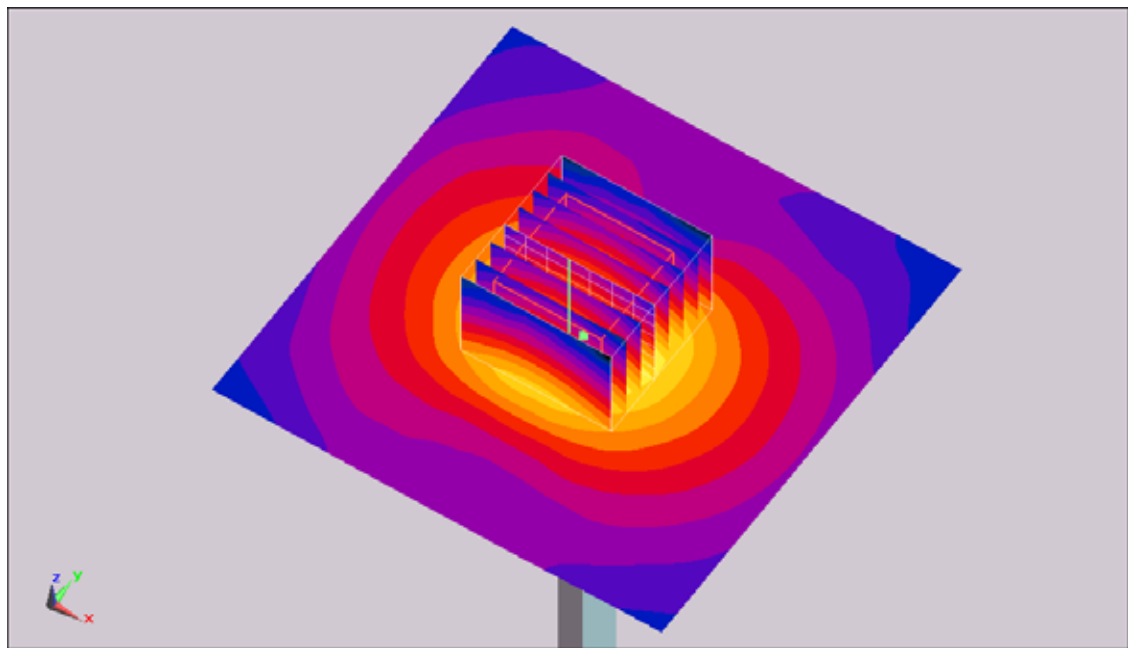
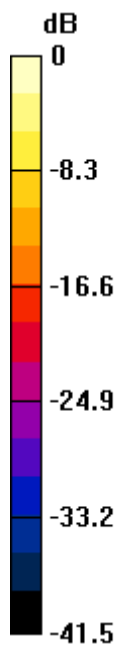
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 78.9 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 51.6 W/kg

**SAR(1 g) = 17.8 mW/g; SAR(10 g) = 5.18 mW/g**

Maximum value of SAR (measured) = 29.9 mW/g



0 dB = 29.9mW/g

## **System Check\_Body\_5800MHz\_111127**

### **DUT: Dipole 5GHz**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: MSL\_5G\_111127 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.99$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.4 ; Liquid Temperature : 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(3.78, 3.78, 3.78); Calibrated: 2011/6/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2011/6/17
- Phantom: ELI 4.0\_Front; Type: QD 0VA 002 AA; Serial: TP-1131
- ; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 31.3 mW/g

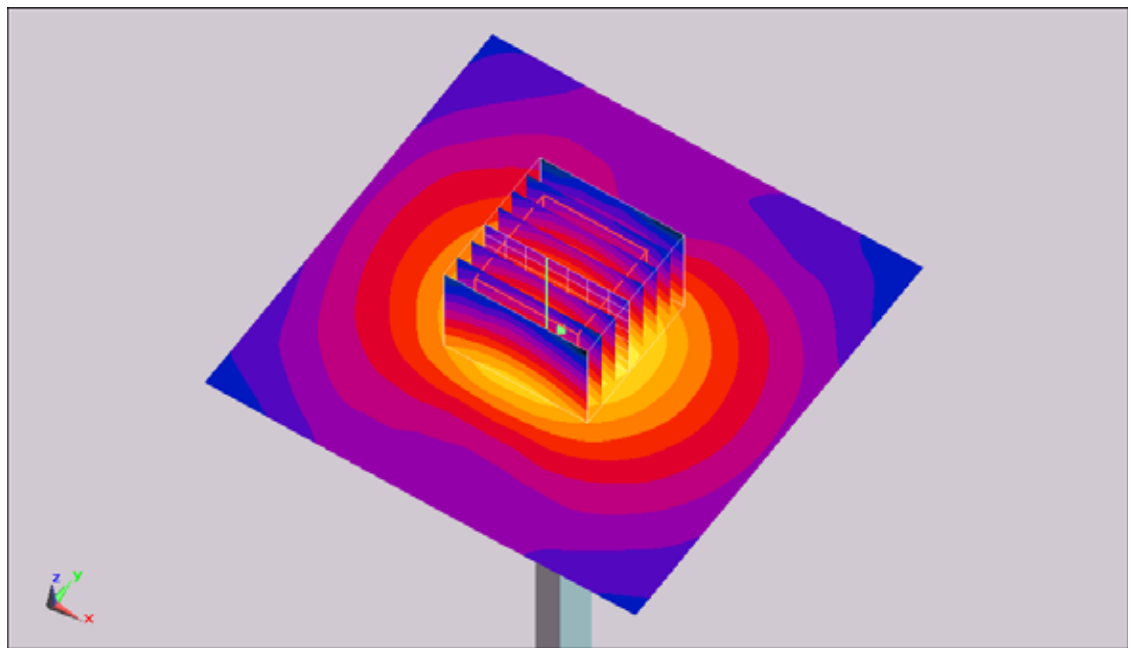
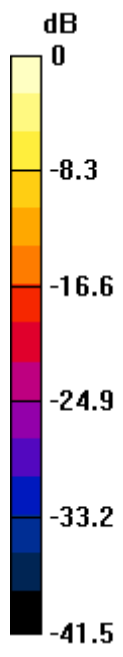
**Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 79.1 V/m; Power Drift = 0.125 dB

Peak SAR (extrapolated) = 49.7 W/kg

**SAR(1 g) = 17.2 mW/g; SAR(10 g) = 4.99 mW/g**

Maximum value of SAR (measured) = 28.8 mW/g



0 dB = 28.8mW/g