

## System Check\_Head\_2450MHz\_100823

### DUT: Dipole 2450 MHz

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

Medium: HSL\_2450\_100823 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

#### DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.5, 4.5, 4.5); Calibrated: 2010/5/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 5.80 mW/g

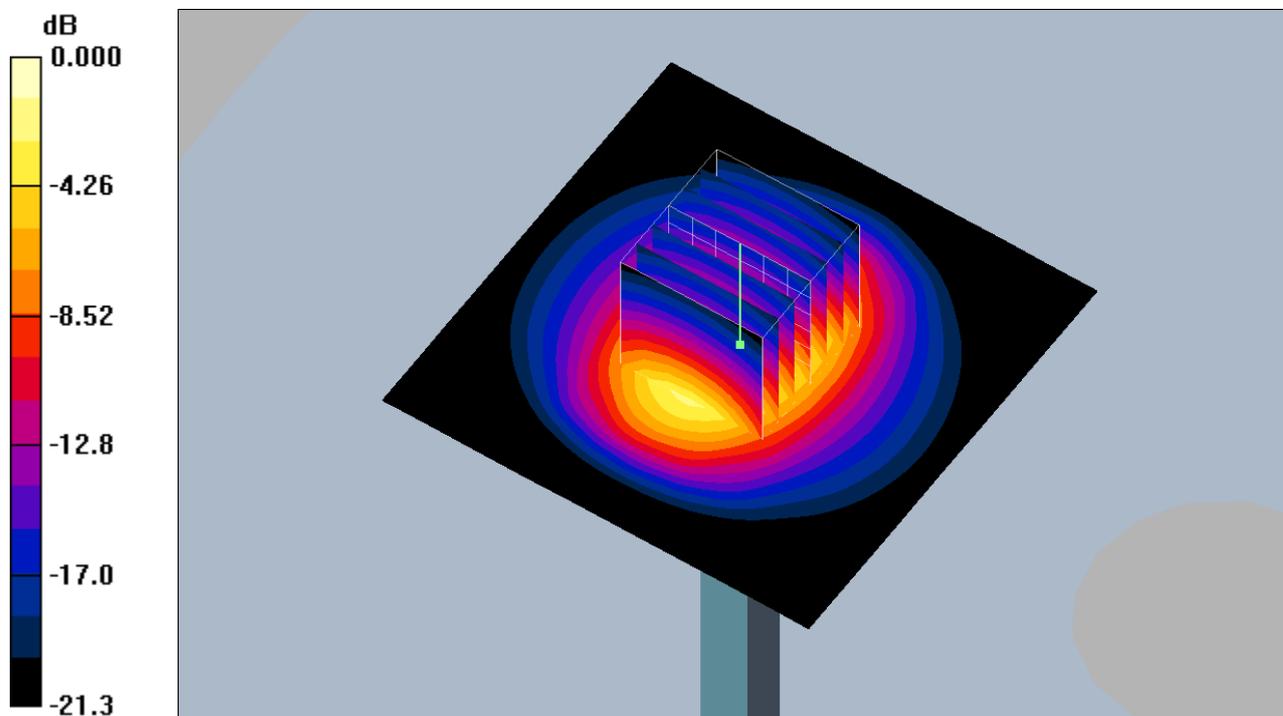
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.7 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 10.7 W/kg

**SAR(1 g) = 5.03 mW/g; SAR(10 g) = 2.37 mW/g**

Maximum value of SAR (measured) = 5.72 mW/g



0 dB = 5.72mW/g

## **System Check\_Head\_2450MH\_100827**

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

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

Medium: HSL\_2450\_100827 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

#### DASY5 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.5, 4.5, 4.5); Calibrated: 2010/5/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: SAM - Front; Type: SAM; Serial: TP-1446
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 5.67 mW/g

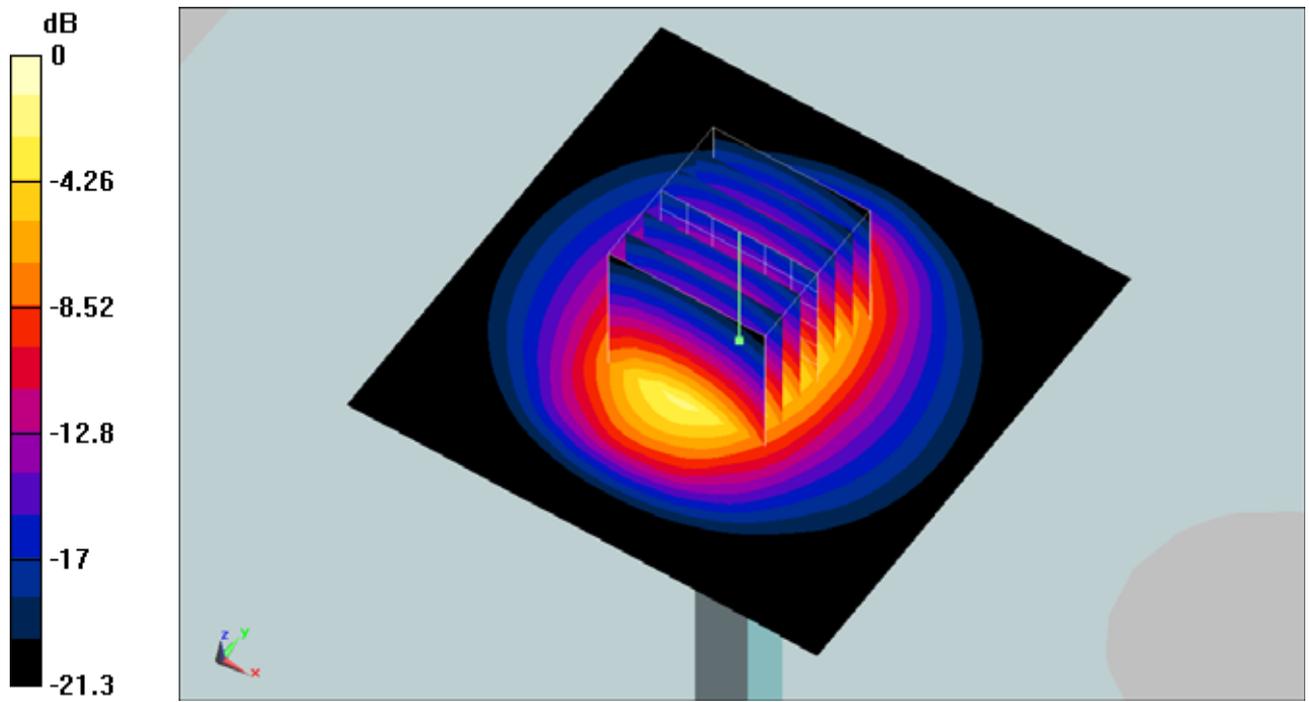
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 10.5 W/kg

**SAR(1 g) = 4.96 mW/g; SAR(10 g) = 2.33 mW/g**

Maximum value of SAR (measured) = 5.63 mW/g



0 dB = 5.63mW/g

### System Check\_Body\_2450MHz\_100823

#### DUT: Dipole 2450 MHz

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

Medium: MSL\_2450\_100823 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

#### DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.03, 4.03, 4.03); Calibrated: 2010/5/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.33 mW/g

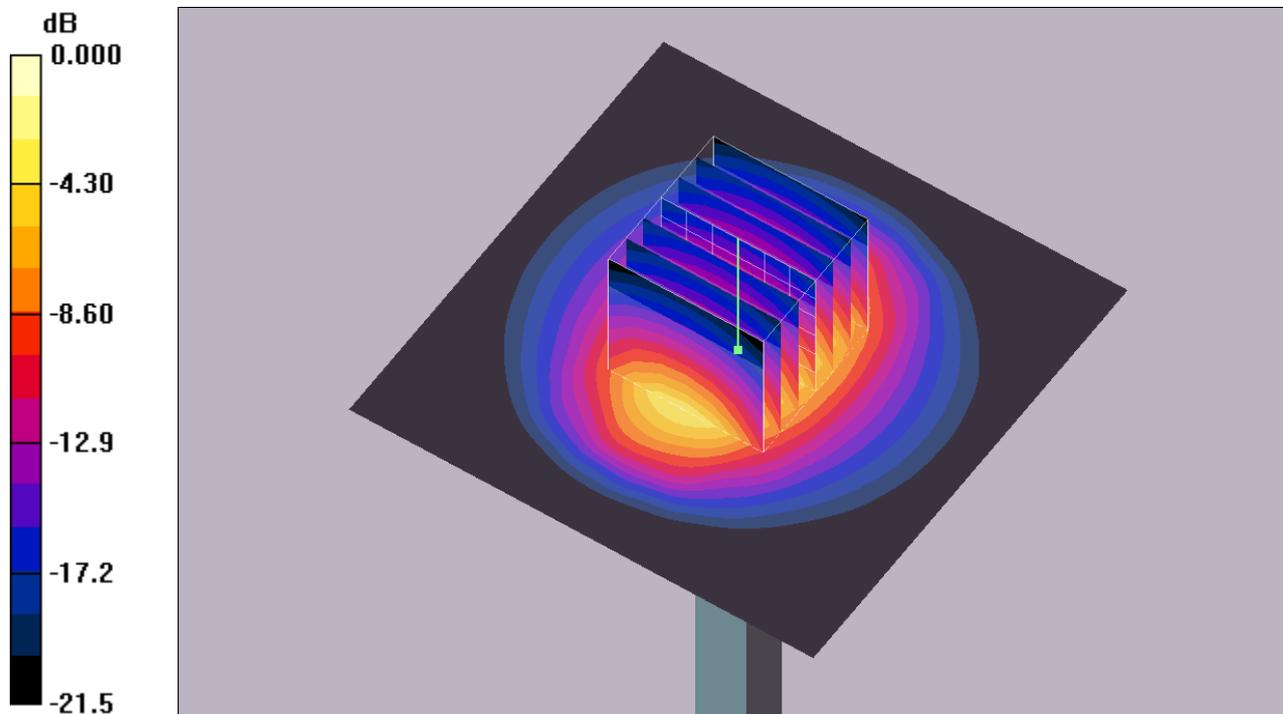
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.9 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 13.3 W/kg

**SAR(1 g) = 5.52 mW/g; SAR(10 g) = 2.52 mW/g**

Maximum value of SAR (measured) = 6.09 mW/g



0 dB = 6.09mW/g

## System Check\_Body\_2450MHz\_100827

### DUT: Dipole 2450 MHz

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

Medium: MSL\_2450\_100827 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.02$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.4 ; Liquid Temperature : 21.4

#### DASY5 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.03, 4.03, 4.03); Calibrated: 2010/5/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.48 mW/g

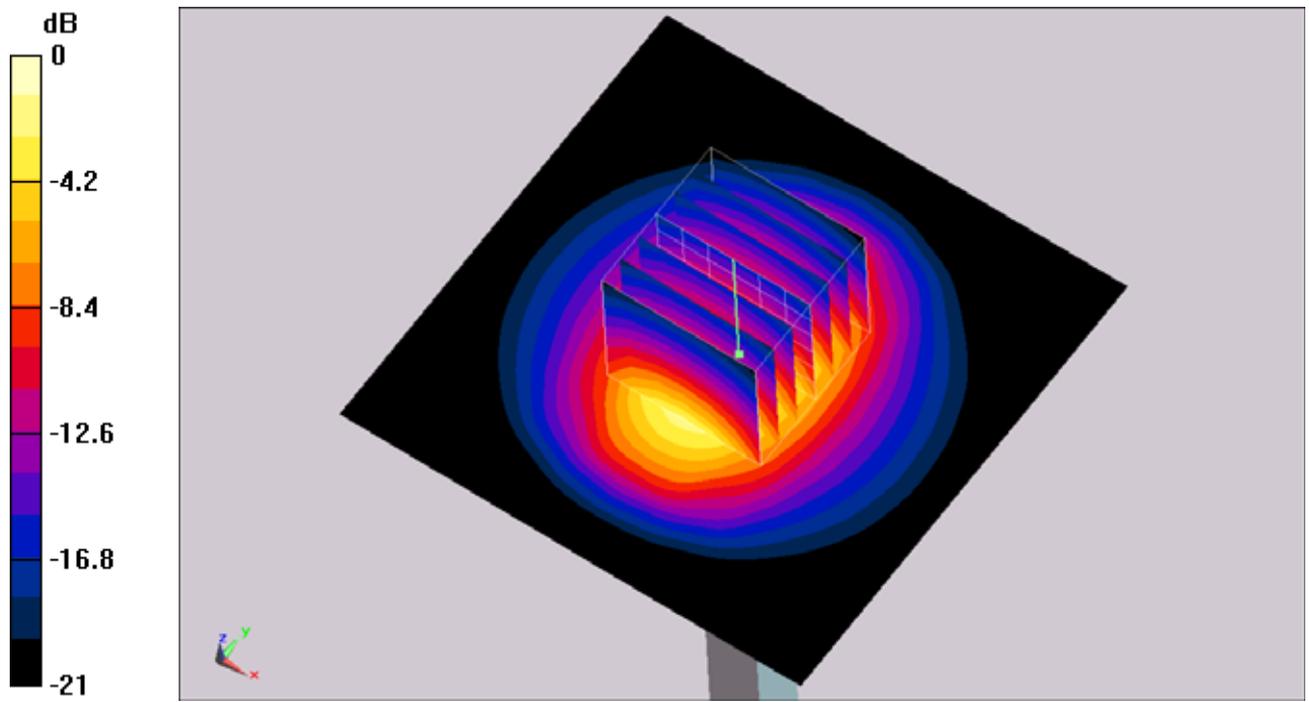
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.9 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 13.2 W/kg

**SAR(1 g) = 5.64 mW/g; SAR(10 g) = 2.62 mW/g**

Maximum value of SAR (measured) = 6.22 mW/g



0 dB = 6.22mW/g

## System Check\_Head\_5200MHz\_100826

### DUT: Dipole 5GHz

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

Medium: HSL\_5G\_100826 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.81$  mho/m;  $\epsilon_r = 35.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.6 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(4.65, 4.65, 4.65); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.4 mW/g

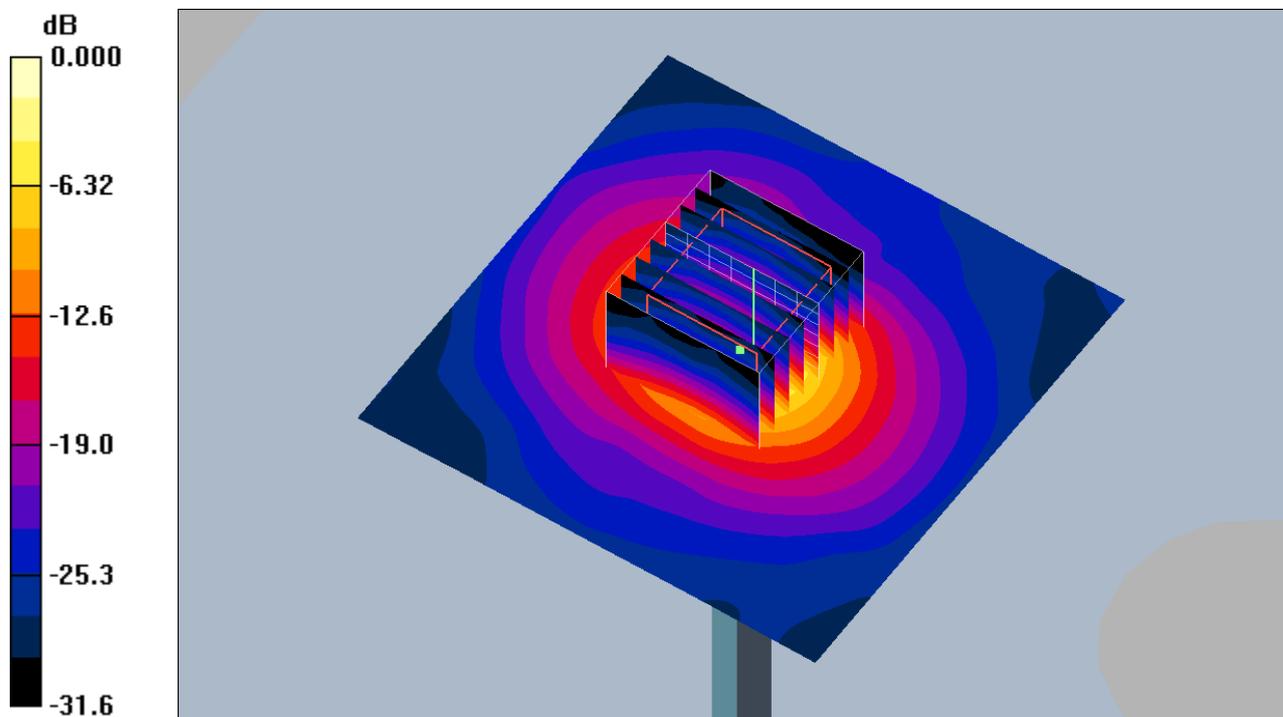
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 58.0 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 30.1 W/kg

**SAR(1 g) = 7.77 mW/g; SAR(10 g) = 2.19 mW/g**

Maximum value of SAR (measured) = 13.1 mW/g



0 dB = 13.1mW/g

## **System Check\_Body\_5200MHz\_100824**

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

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

Medium: MSL\_5G\_100824 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.14$  mho/m;  $\epsilon_r = 47.5$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.6 ; Liquid Temperature : 21.5

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3731; ConvF(4.16, 4.16, 4.16); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 13.5 mW/g

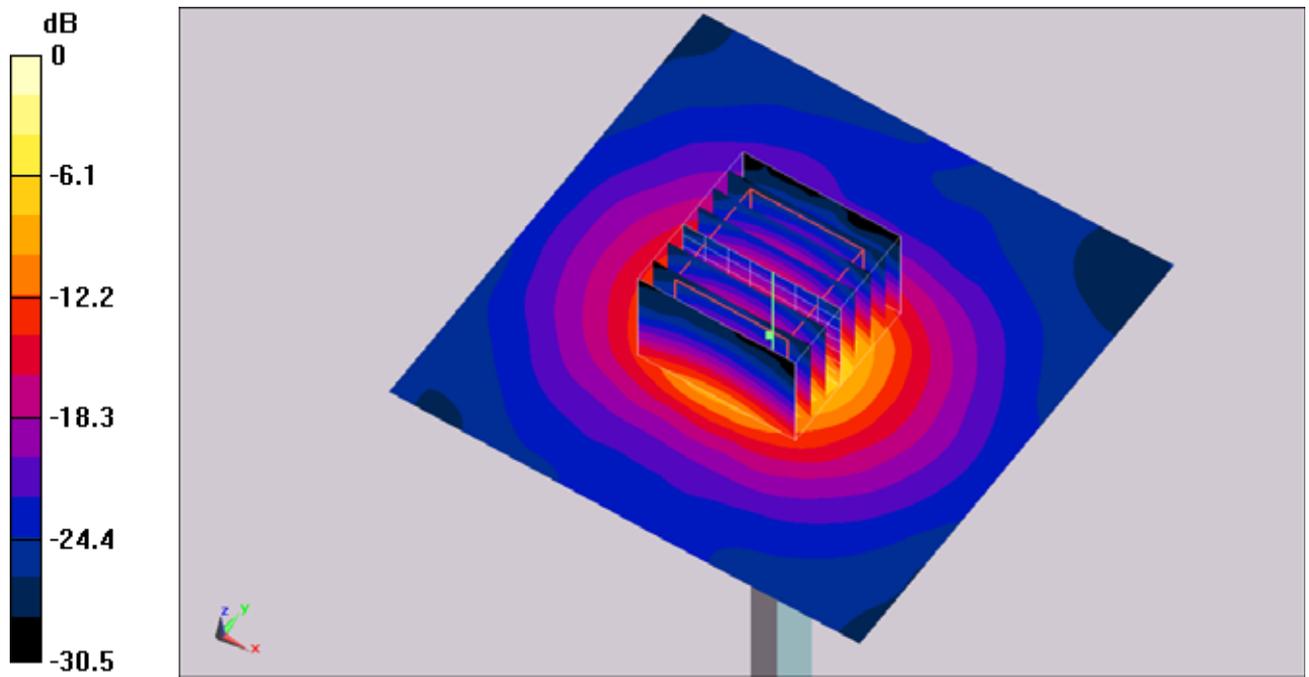
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 55 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 22.2 W/kg

**SAR(1 g) = 7.68 mW/g; SAR(10 g) = 2.23 mW/g**

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



### System Check\_Head\_5500MHz\_100826

#### DUT: Dipole 5GHz

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

Medium: HSL\_5G\_100826 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.13$  mho/m;  $\epsilon_r = 35$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.6 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(4.45, 4.45, 4.45); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.8 mW/g

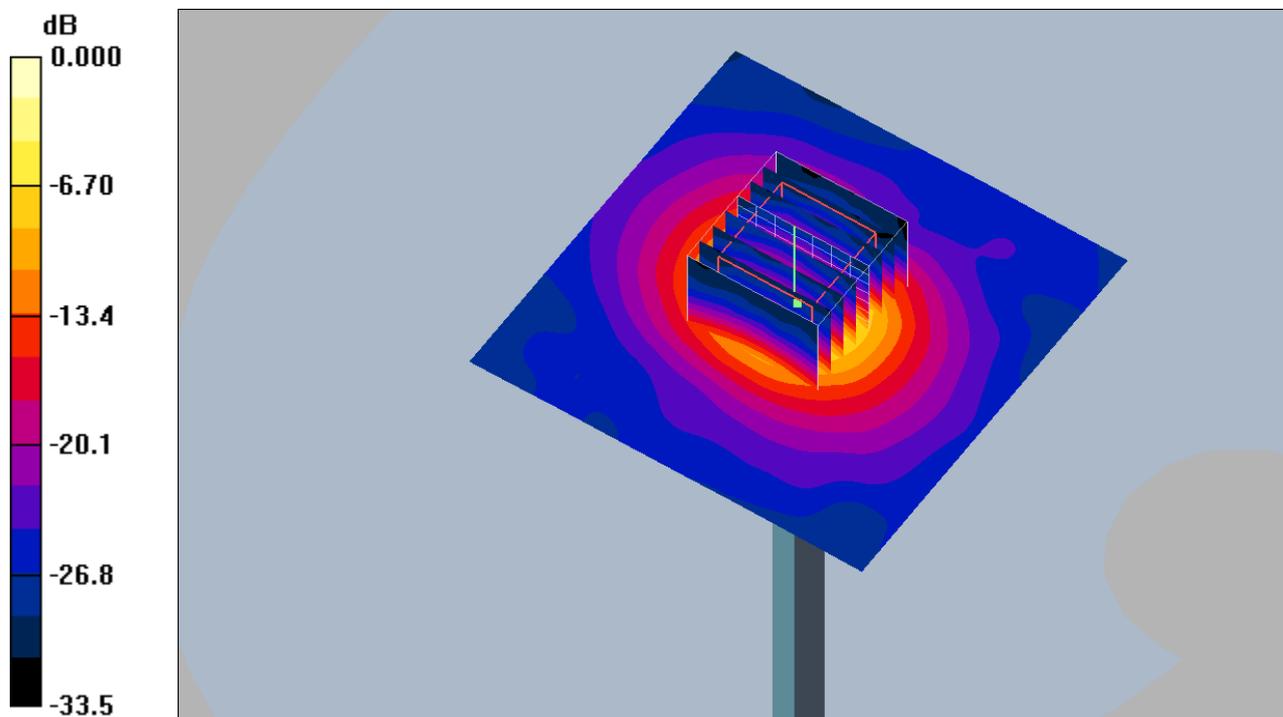
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 59.0 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 35.6 W/kg

**SAR(1 g) = 8.92 mW/g; SAR(10 g) = 2.51 mW/g**

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



0 dB = 15.2mW/g

### System Check\_Head\_5500MHz\_100828

#### DUT: Dipole 5GHz

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

Medium: HSL\_5G\_100828 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.09$  mho/m;  $\epsilon_r = 34.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.6 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(4.45, 4.45, 4.45); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.9 mW/g

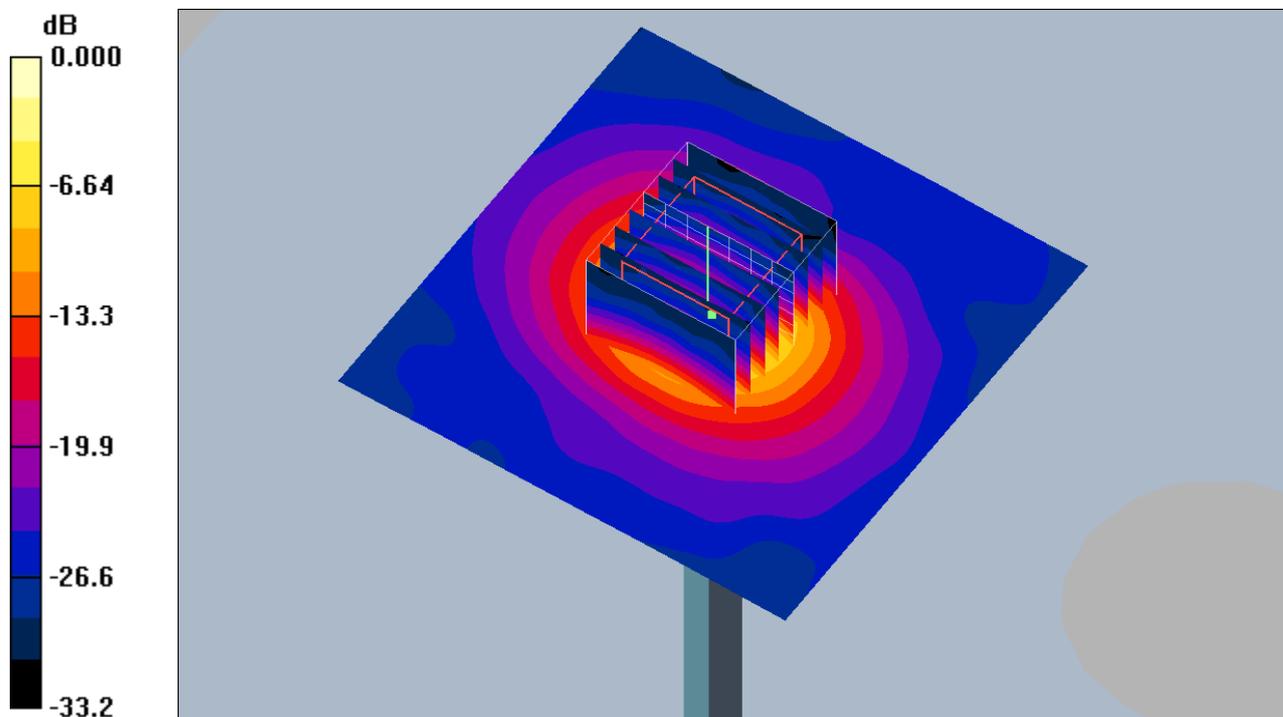
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 59.0 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 37.1 W/kg

**SAR(1 g) = 9.02 mW/g; SAR(10 g) = 2.53 mW/g**

Maximum value of SAR (measured) = 15.3 mW/g



0 dB = 15.3mW/g

**System Check\_Body\_5500MHz\_100824**

**DUT: Dipole 5GHz**

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

Medium: MSL\_5G\_100824 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.52$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 ; Liquid Temperature : 21.5

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3731; ConvF(3.43, 3.43, 3.43); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

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

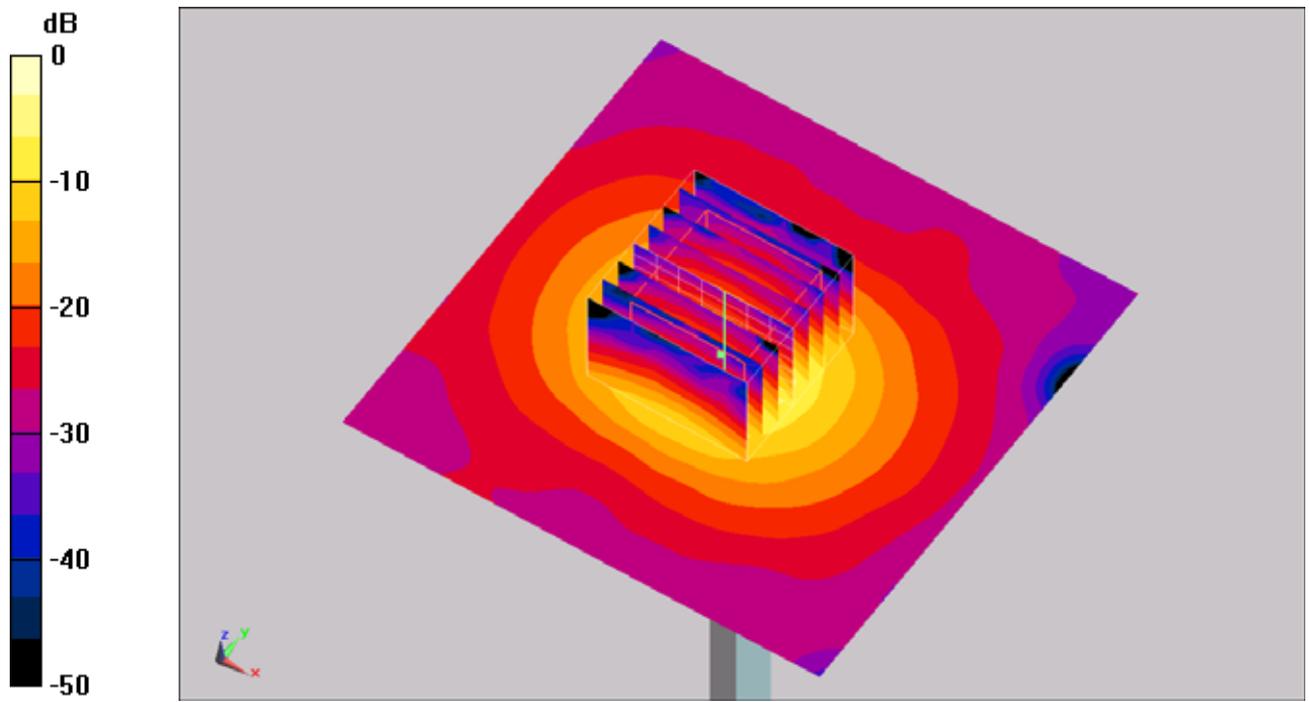
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 57.7 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 29.2 W/kg

**SAR(1 g) = 8.78 mW/g; SAR(10 g) = 2.46 mW/g**

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



0 dB = 15.6mW/g

## System Check\_Body\_5500MHz\_100828

### DUT: Dipole 5GHz

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

Medium: MSL\_5G\_100828 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.47$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(3.43, 3.43, 3.43); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: ELI 4.0\_Front; Type: QDOVA001BB; Serial: 1026
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

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

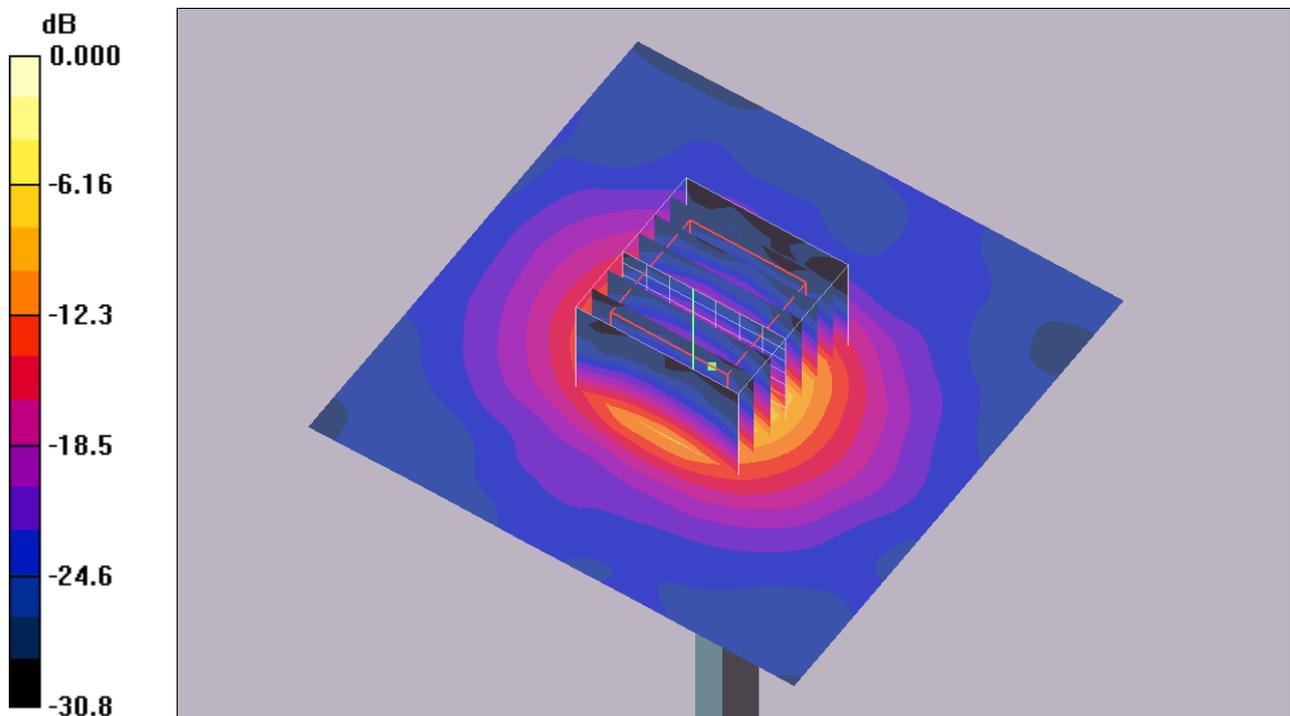
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 56.9 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 26.4 W/kg

**SAR(1 g) = 8.09 mW/g; SAR(10 g) = 2.25 mW/g**

Maximum value of SAR (measured) = 13.9 mW/g



0 dB = 13.9mW/g

## System Check\_Head\_5800MHz\_100826

### DUT: Dipole 5GHz

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

Medium: HSL\_5G\_100826 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.42$  mho/m;  $\epsilon_r = 34.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.6 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(4.08, 4.08, 4.08); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn910; Calibrated: 2009/9/18
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 14.4 mW/g

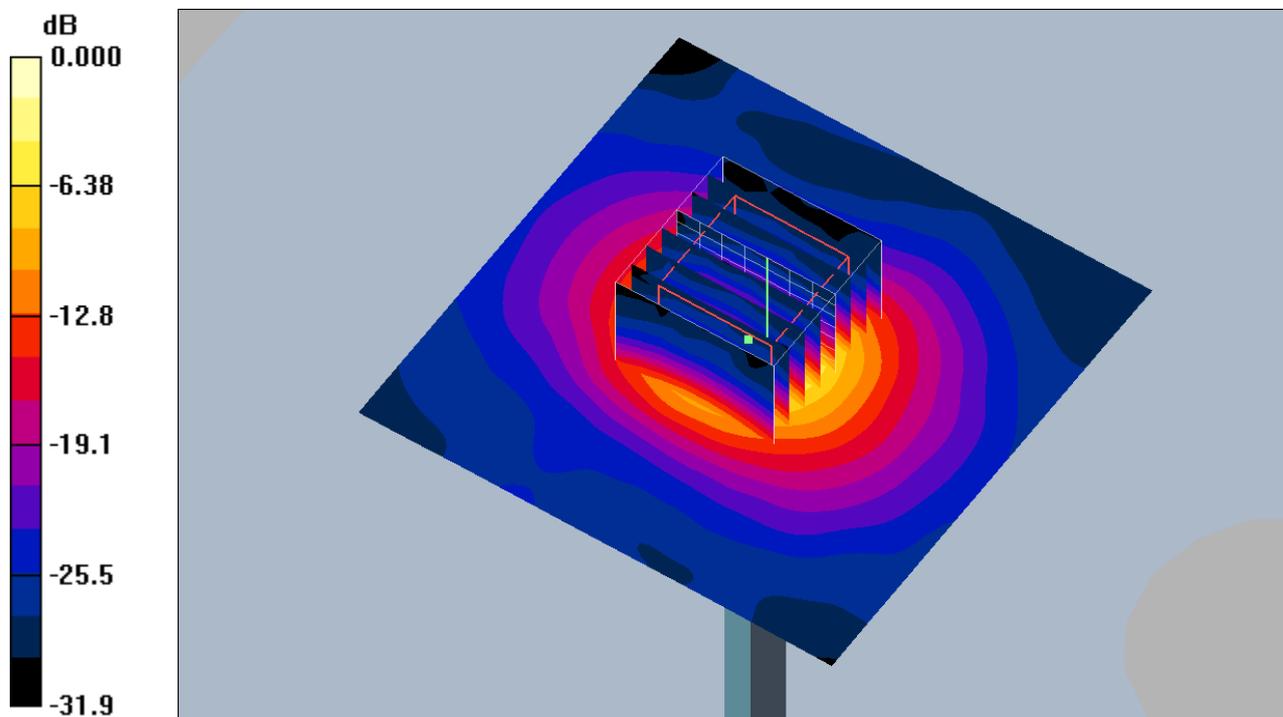
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 53.0 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 33.5 W/kg

**SAR(1 g) = 7.87 mW/g; SAR(10 g) = 2.22 mW/g**

Maximum value of SAR (measured) = 13.1 mW/g



0 dB = 13.1mW/g

## **System Check\_Body\_5800MHz\_100824**

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

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

Medium: MSL\_5G\_100824 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.99$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.6 ; Liquid Temperature : 21.5

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3731; ConvF(3.59, 3.59, 3.59); Calibrated: 2010/7/16
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=100mW/Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 13 mW/g

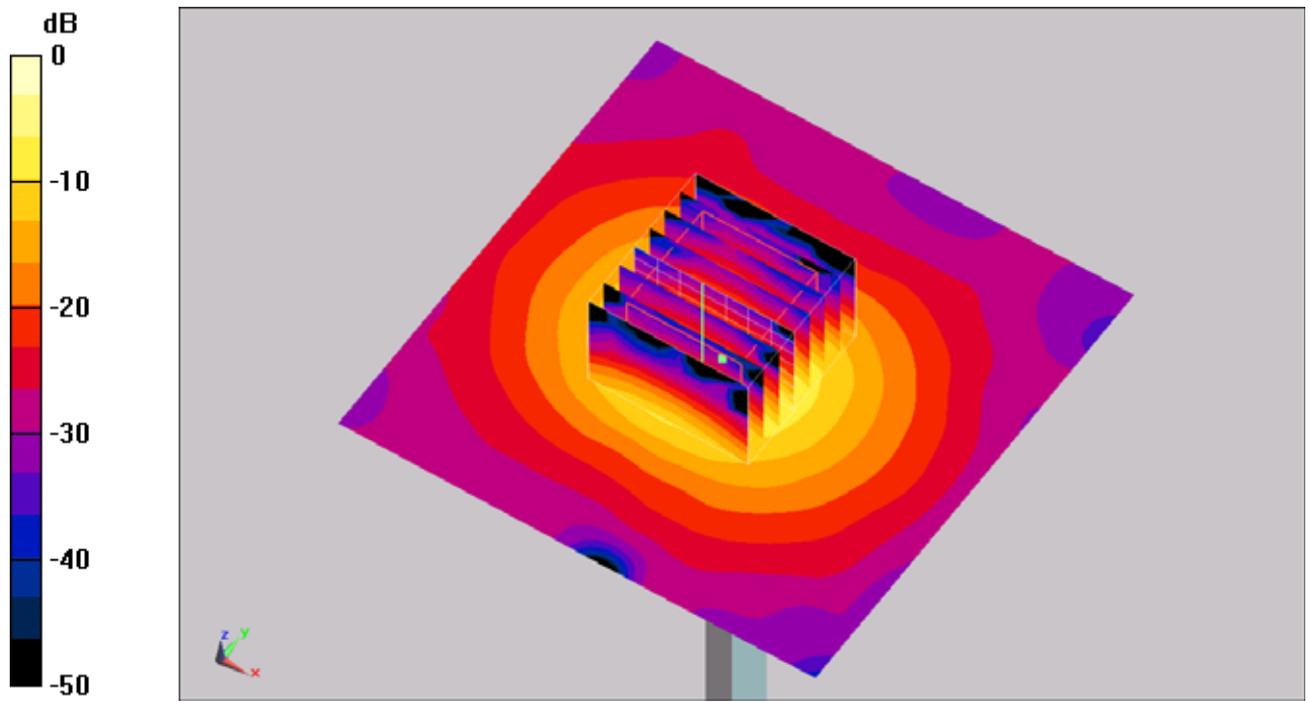
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 51.1 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 25.2 W/kg

**SAR(1 g) = 7.38 mW/g; SAR(10 g) = 2.06 mW/g**

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



0 dB = 12.6mW/g