

## System Check\_2450MHz\_100520

### DUT: Dipole 2450 MHz

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

Medium: MSL\_2450\_100520 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.02$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.6 ; Liquid Temperature : 21.6

#### DASY5 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(4.19, 4.19, 4.19); Calibrated: 2009/9/23
- Sensor-Surface: 4mm (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) = 5.5 mW/g

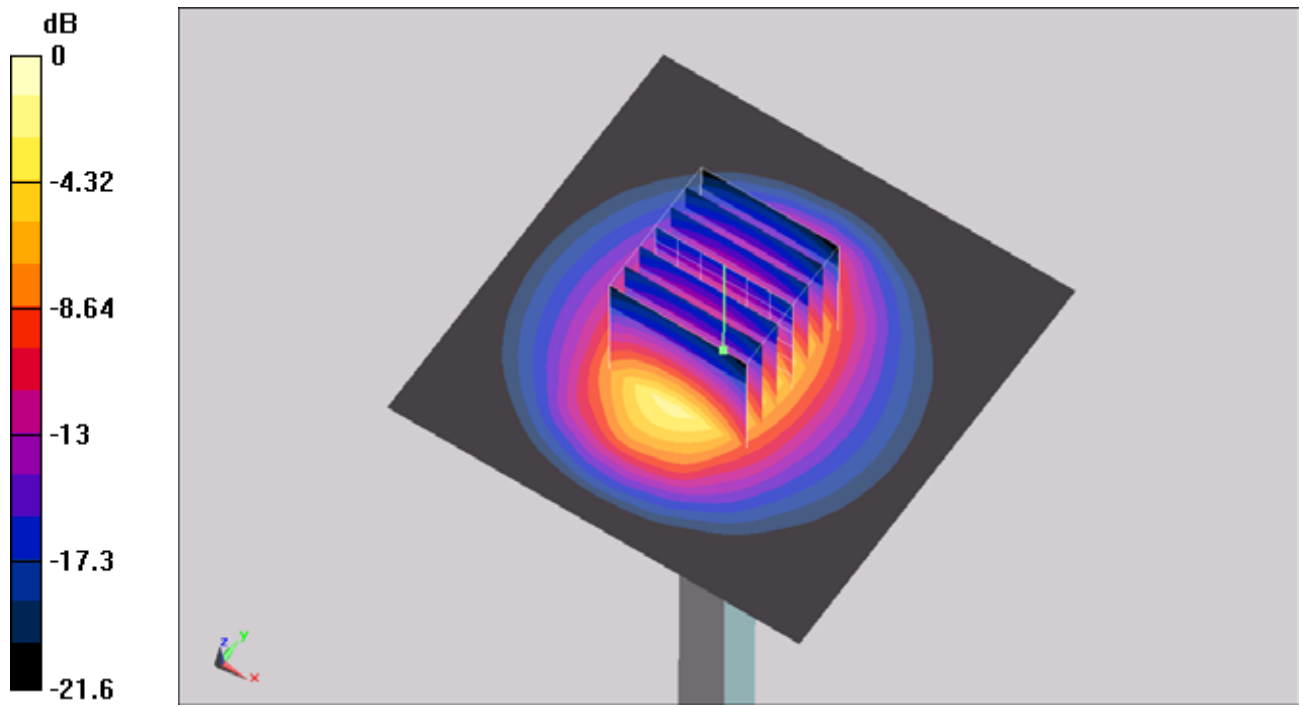
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.1 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 10.9 W/kg

**SAR(1 g) = 4.81 mW/g; SAR(10 g) = 2.23 mW/g**

Maximum value of SAR (measured) = 5.36 mW/g



0 dB = 5.36mW/g

## System Check\_2450MHz\_100524

### DUT: Dipole 2450 MHz

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

Medium: MSL\_2450\_100524 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(3.98, 3.98, 3.98); Calibrated: 2008/9/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2009/8/24
- 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) = 6.67 mW/g

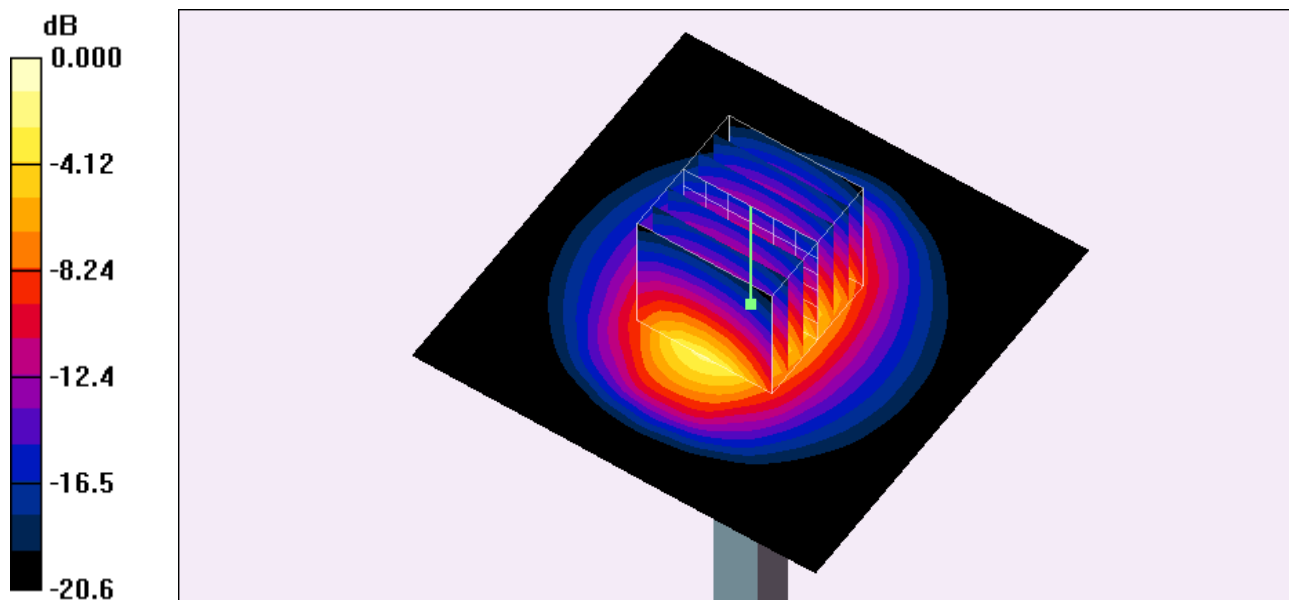
**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.3 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 12.0 W/kg

**SAR(1 g) = 5.67 mW/g; SAR(10 g) = 2.68 mW/g**

Maximum value of SAR (measured) = 6.41 mW/g



0 dB = 6.41mW/g

## System Check\_5200MHz\_100522

### DUT: Dipole 5GHz

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

Medium: MSL\_5G\_100522 Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.11 \text{ mho/m}$ ;  $\epsilon_r = 47.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV3 - SN3514; ConvF(4.27, 4.27, 4.27); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2009/8/24
- 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) = 13.8 mW/g

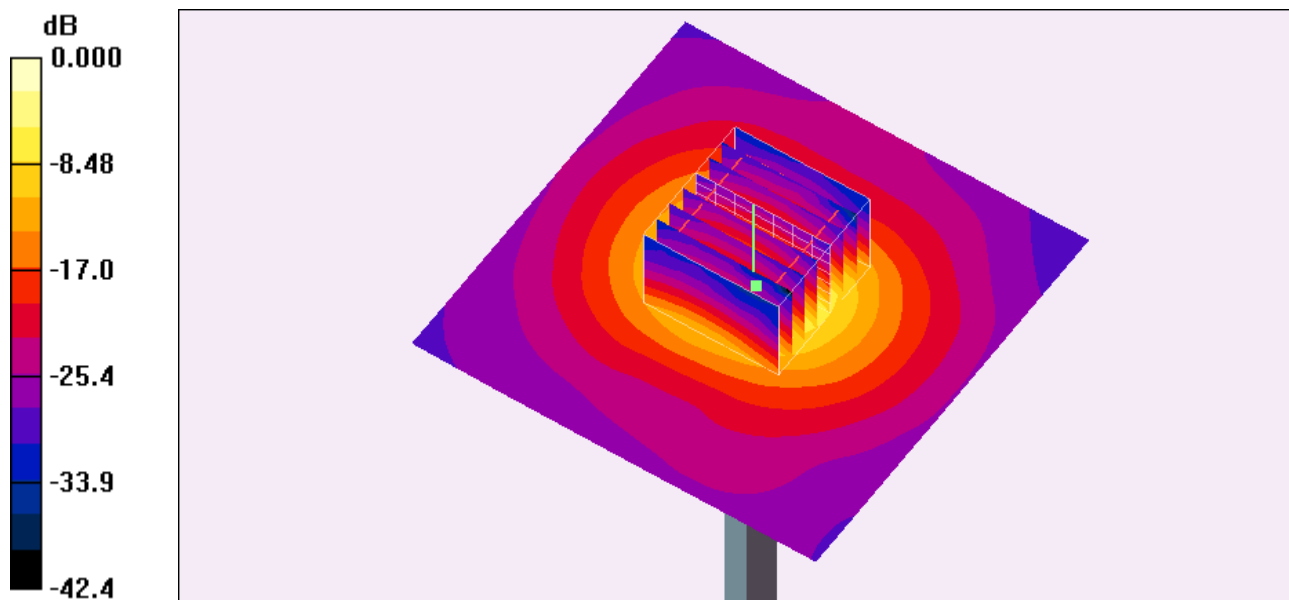
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 53.8 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 27.1 W/kg

**SAR(1 g) = 7.53 mW/g; SAR(10 g) = 2.16 mW/g**

Maximum value of SAR (measured) = 12.9 mW/g



0 dB = 12.9mW/g

### System Check\_5200MHz\_100523

#### DUT: Dipole 5GHz

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

Medium: MSL\_5G\_100523 Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.34 \text{ mho/m}$ ;  $\epsilon_r = 47.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.7 °C; Liquid Temperature : 21.1 °C

#### DASY4 Configuration:

- Probe: EX3DV3 - SN3514; ConvF(4.27, 4.27, 4.27); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2009/8/24
- 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) = 13.3 mW/g

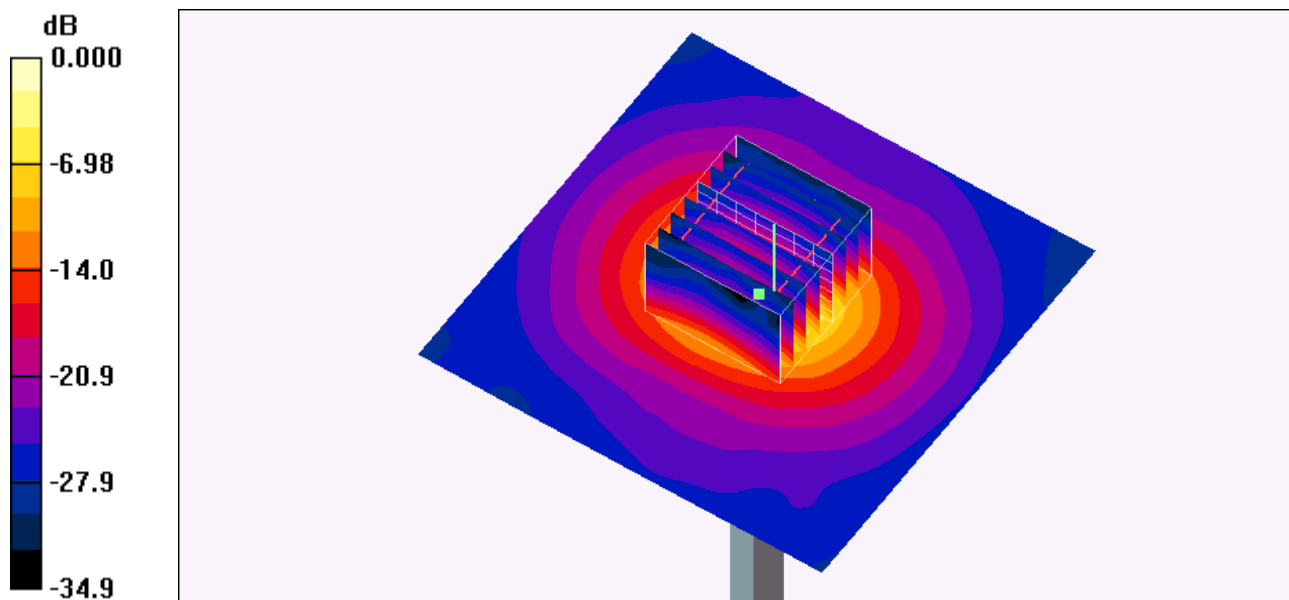
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 51.4 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 26.7 W/kg

**SAR(1 g) = 7.5 mW/g; SAR(10 g) = 2.12 mW/g**

Maximum value of SAR (measured) = 13.0 mW/g



0 dB = 13.0mW/g

### System Check\_5500MHz\_100523

#### DUT: Dipole 5GHz

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

Medium: MSL\_5G\_100523 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.73$  mho/m;  $\epsilon_r = 46.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV3 - SN3514; ConvF(3.86, 3.86, 3.86); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2009/8/24
- 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) = 14.4 mW/g

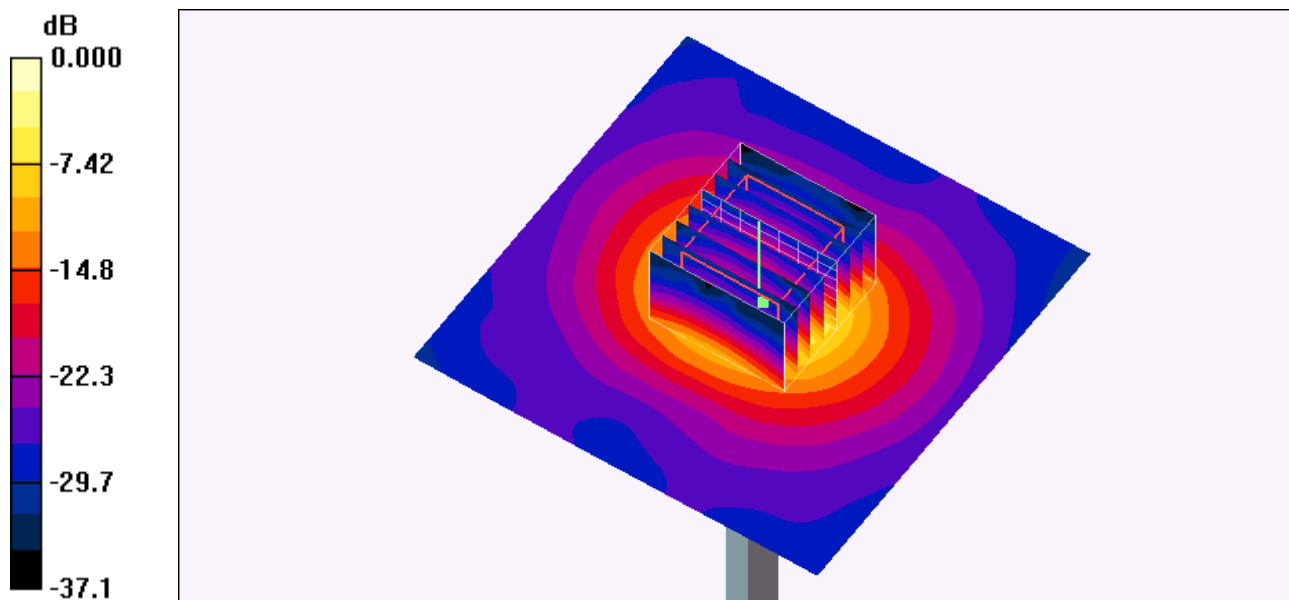
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 52.5 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 29.1 W/kg

**SAR(1 g) = 7.88 mW/g; SAR(10 g) = 2.23 mW/g**

Maximum value of SAR (measured) = 13.2 mW/g



0 dB = 13.2mW/g

## System Check\_5500MHz\_100524

### DUT: Dipole 5GHz

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

Medium: MSL\_5G\_100524 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.49$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV3 - SN3514; ConvF(3.86, 3.86, 3.86); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2009/8/24
- 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) = 13.7 mW/g

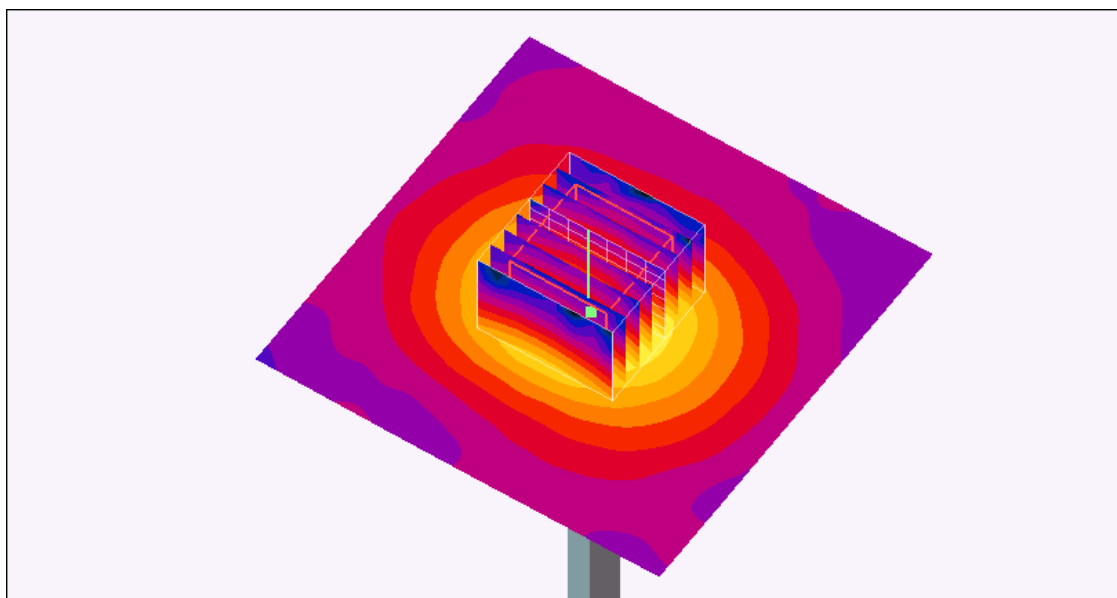
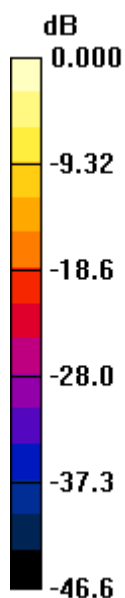
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 55.3 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 29.5 W/kg

**SAR(1 g) = 7.88 mW/g; SAR(10 g) = 2.21 mW/g**

Maximum value of SAR (measured) = 13.2 mW/g



0 dB = 13.2mW/g

## System Check\_5800MHz\_100524

### DUT: Dipole 5GHz

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

Medium: MSL\_5G\_100524 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.96$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV3 - SN3514; ConvF(3.9, 3.9, 3.9); Calibrated: 2010/1/26
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2009/8/24
- 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) = 12.1 mW/g

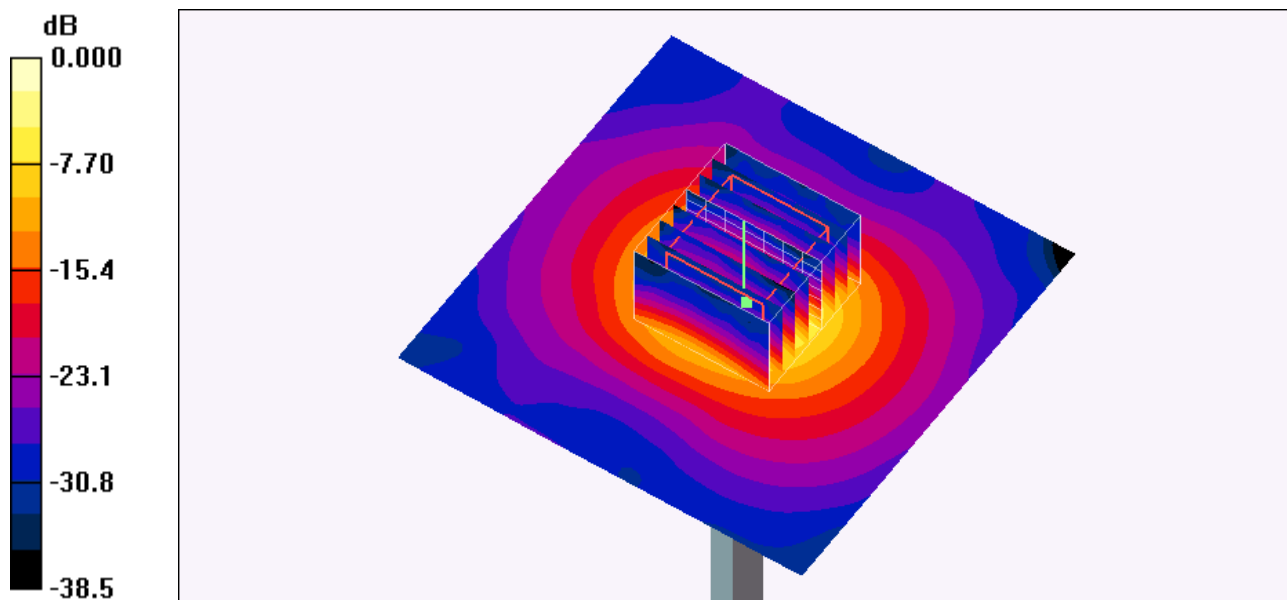
**Pin=100mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 48.4 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 26.3 W/kg

**SAR(1 g) = 6.89 mW/g; SAR(10 g) = 1.95 mW/g**

Maximum value of SAR (measured) = 11.6 mW/g



0 dB = 11.6mW/g