



## **Appendix A. SAR Plots of System Verification**

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

## System Check\_H750\_130829

**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: H750\_0829 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.912$  S/m;  $\epsilon_r = 40.638$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.69, 9.69, 9.69); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.77 W/kg

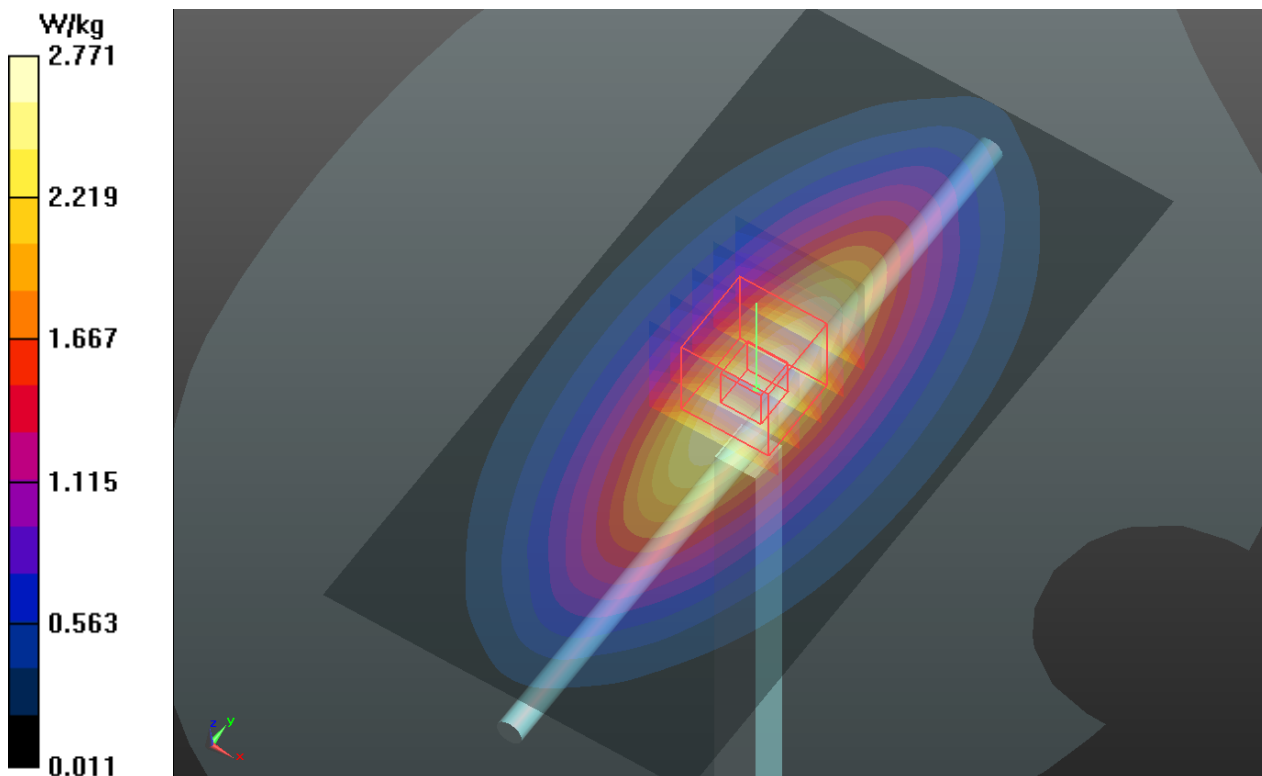
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.520 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.23 W/kg

**SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.49 W/kg**

Maximum value of SAR (measured) = 2.78 W/kg



### System Check\_H835\_130823

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H835\_0823 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 42.588$ ;  $\rho = 1000$  kg/m<sup>3</sup>

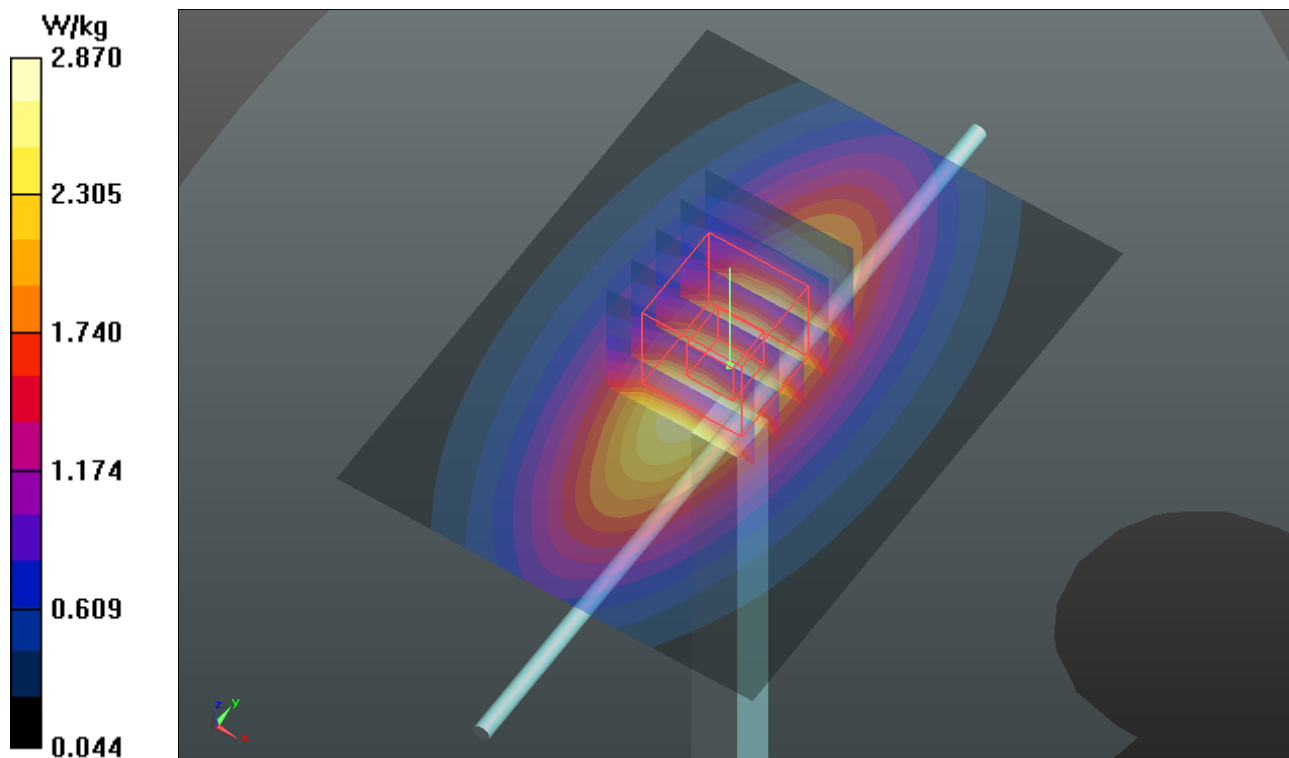
Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(9.96, 9.96, 9.96); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 2.87 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 57.332 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 3.47 W/kg  
**SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.51 W/kg**  
Maximum value of SAR (measured) = 2.93 W/kg



## System Check\_H835\_130828

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: H835\_0828 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 42.018$ ;  $\rho = 1000$  kg/m<sup>3</sup>

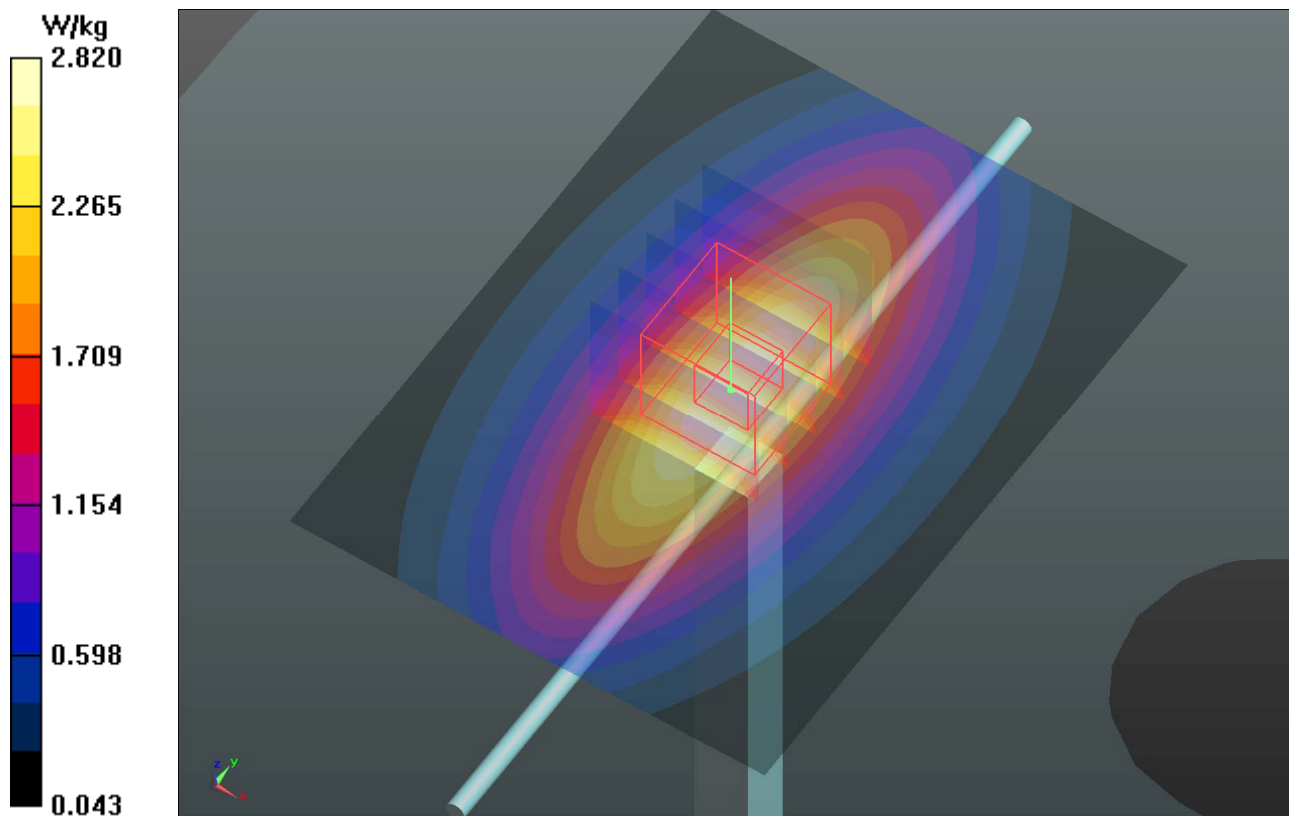
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(9, 9, 9); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1127
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 2.82 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 57.616 V/m; Power Drift = 0.16 dB  
 Peak SAR (extrapolated) = 3.45 W/kg  
**SAR(1 g) = 2.3 W/kg; SAR(10 g) = 1.51 W/kg**  
 Maximum value of SAR (measured) = 2.93 W/kg



## System Check\_H1750\_130829

**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1023**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: H1750\_0829 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 41.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.1 °C; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.91, 7.91, 7.91); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

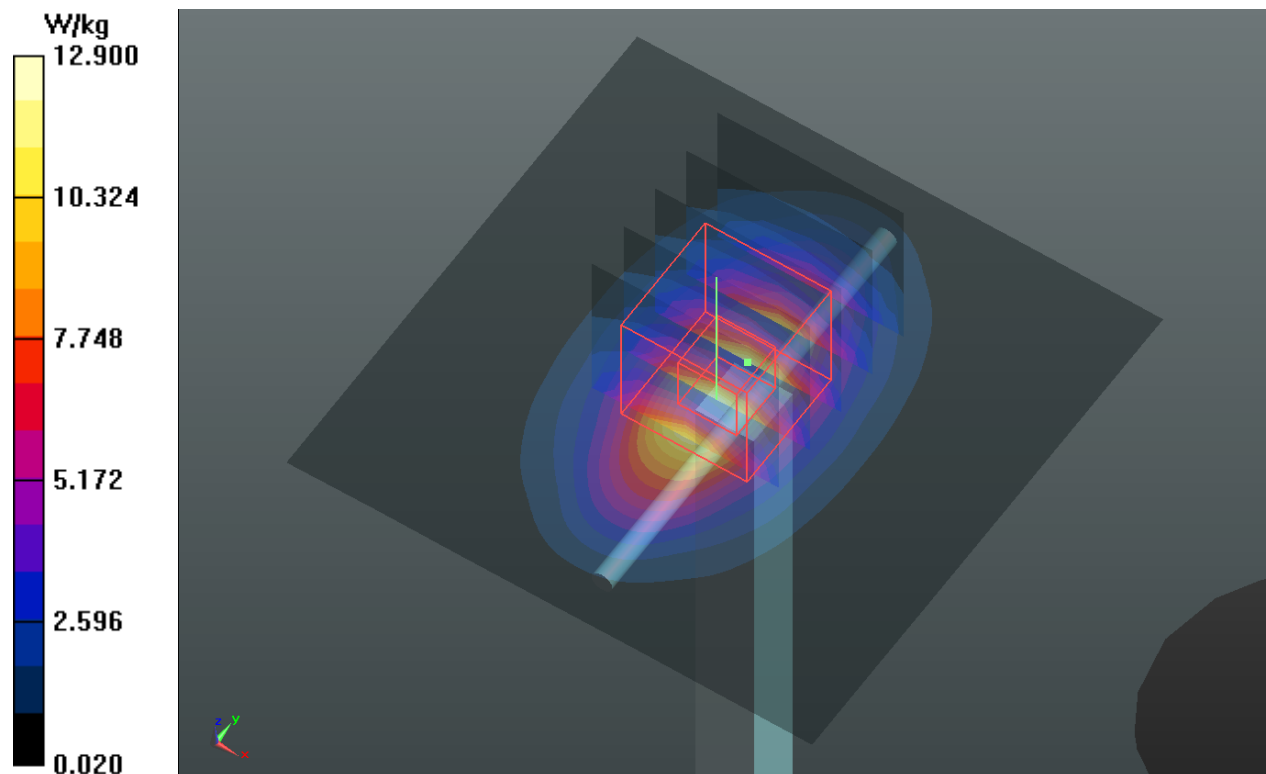
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.539 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 8.76 W/kg; SAR(10 g) = 4.64 W/kg**

Maximum value of SAR (measured) = 12.4 W/kg



## System Check\_H1900\_130822

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H1900\_0822 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.406$  S/m;  $\epsilon_r = 39.541$ ;  $\rho = 1000$  kg/m<sup>3</sup>

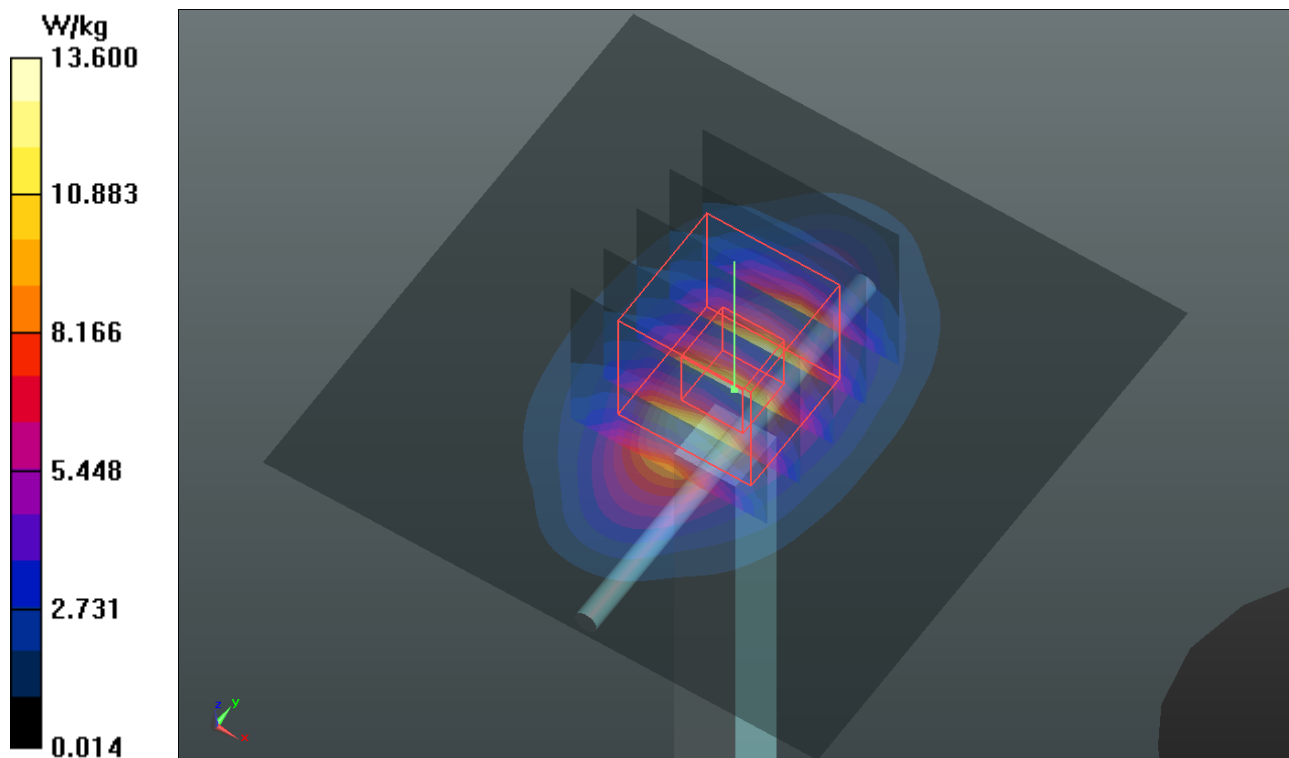
Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.2, 8.2, 8.2); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 13.6 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 99.621 V/m; Power Drift = 0.15 dB  
Peak SAR (extrapolated) = 18.5 W/kg  
**SAR(1 g) = 9.59 W/kg; SAR(10 g) = 4.82 W/kg**  
Maximum value of SAR (measured) = 14.1 W/kg



### System Check\_H1900\_130828

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: H1900\_0828 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.426$  S/m;  $\epsilon_r = 39.212$ ;  $\rho = 1000$  kg/m<sup>3</sup>

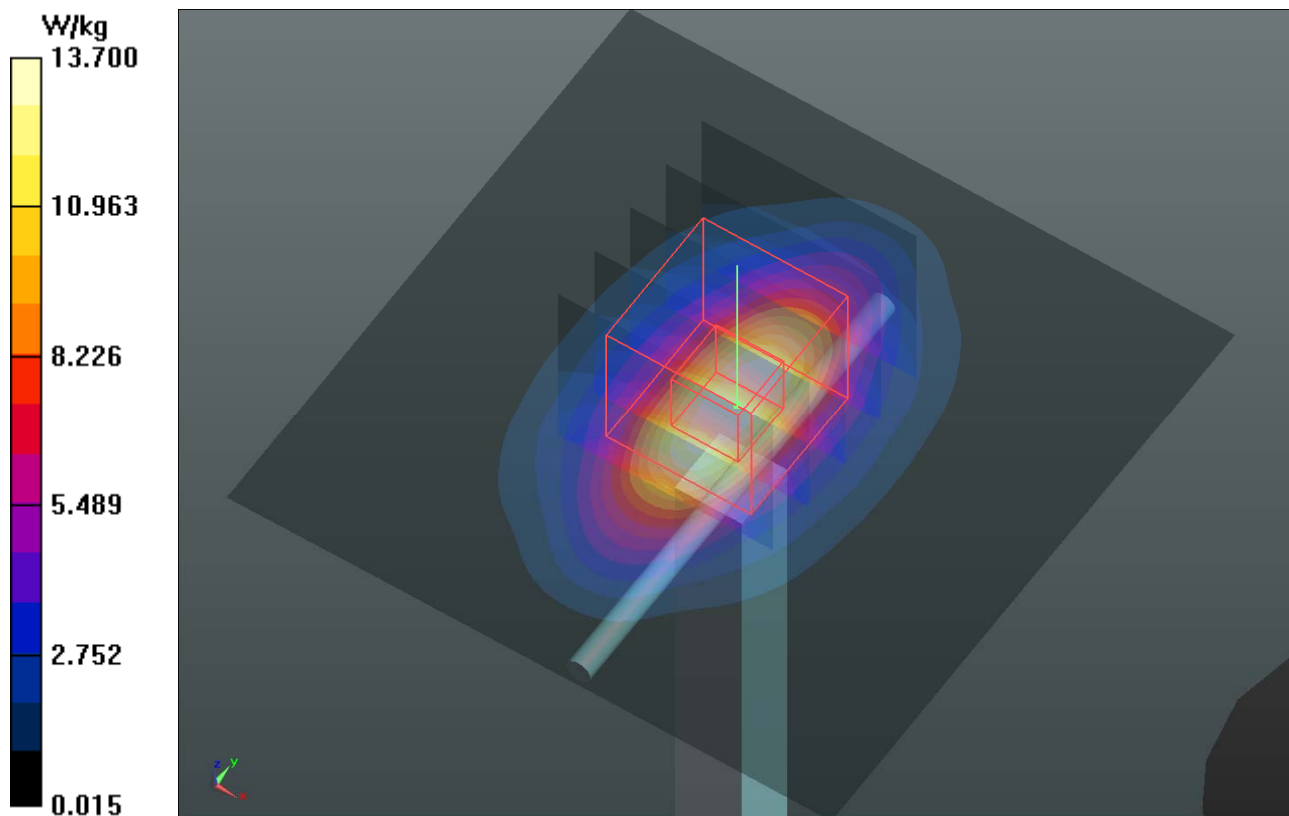
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3801; ConvF(7.67, 7.67, 7.67); Calibrated: 2013/06/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2013/03/19
- Phantom: SAM Phantom\_Right; Type: QD000P40CC; Serial: TP:1496
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 13.7 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 99.826 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 17.7 W/kg  
**SAR(1 g) = 9.42 W/kg; SAR(10 g) = 4.81 W/kg**  
Maximum value of SAR (measured) = 13.8 W/kg



## System Check\_H2450\_130828

**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

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

Medium: H2450\_0828 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.859$  S/m;  $\epsilon_r = 39.136$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.5 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.47, 7.47, 7.47); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 20.1 W/kg

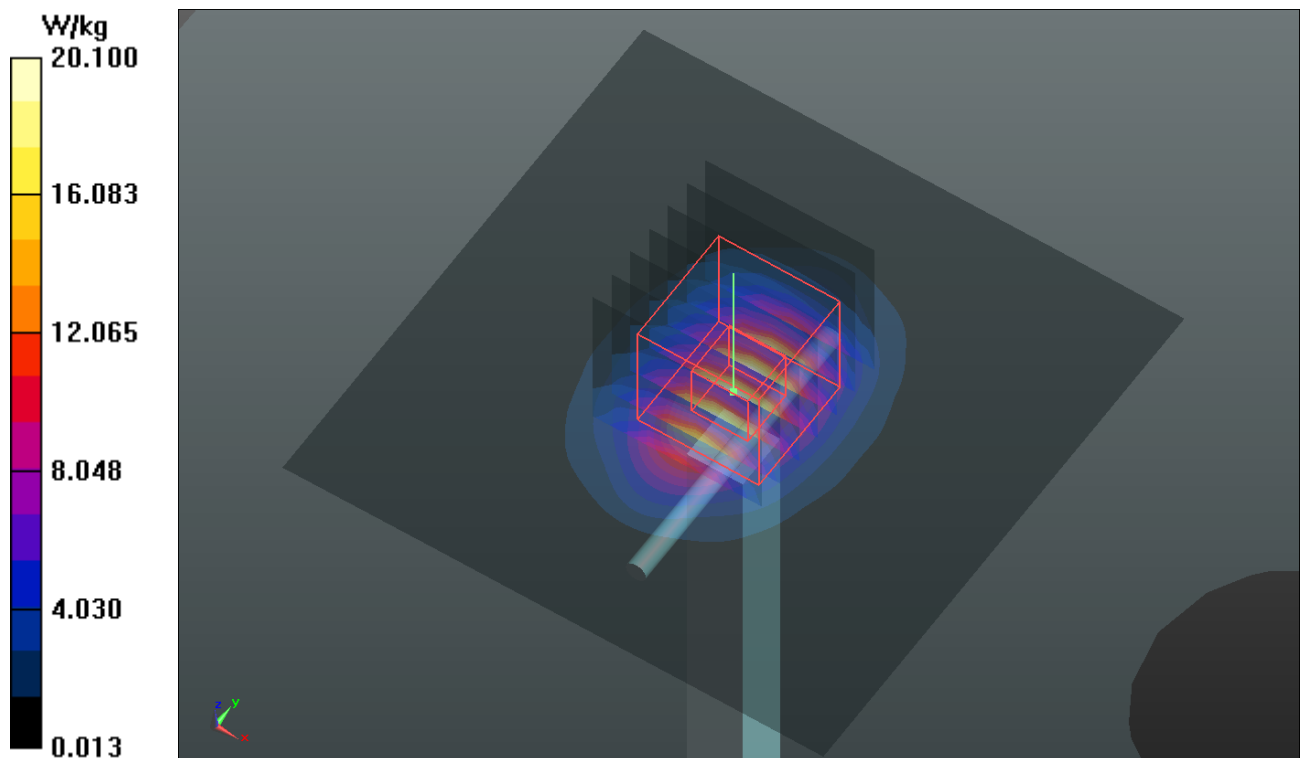
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.9 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 27.8 W/kg

**SAR(1 g) = 13 W/kg; SAR(10 g) = 5.9 W/kg**

Maximum value of SAR (measured) = 20.2 W/kg





### System Check\_H5200\_130828

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

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

Medium: H5G\_0828 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.863$  S/m;  $\epsilon_r = 36.267$ ;  $\rho = 1000$  kg/m<sup>3</sup>

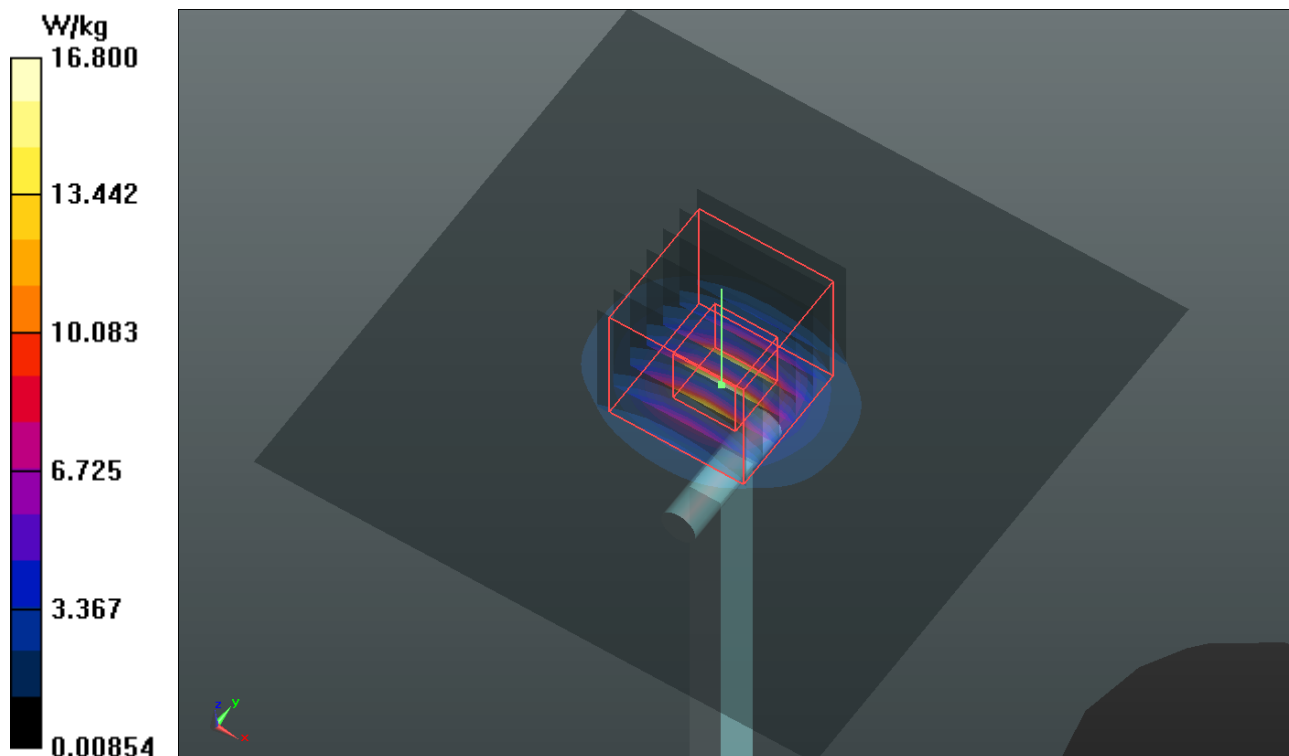
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(5.33, 5.33, 5.33); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 16.8 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 63.688 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 35.9 W/kg  
**SAR(1 g) = 8.53 W/kg; SAR(10 g) = 2.38 W/kg**  
Maximum value of SAR (measured) = 17.7 W/kg



## System Check\_H5300\_130828

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: H5G\_0828 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.977$  S/m;  $\epsilon_r = 36.089$ ;  $\rho = 1000$  kg/m<sup>3</sup>

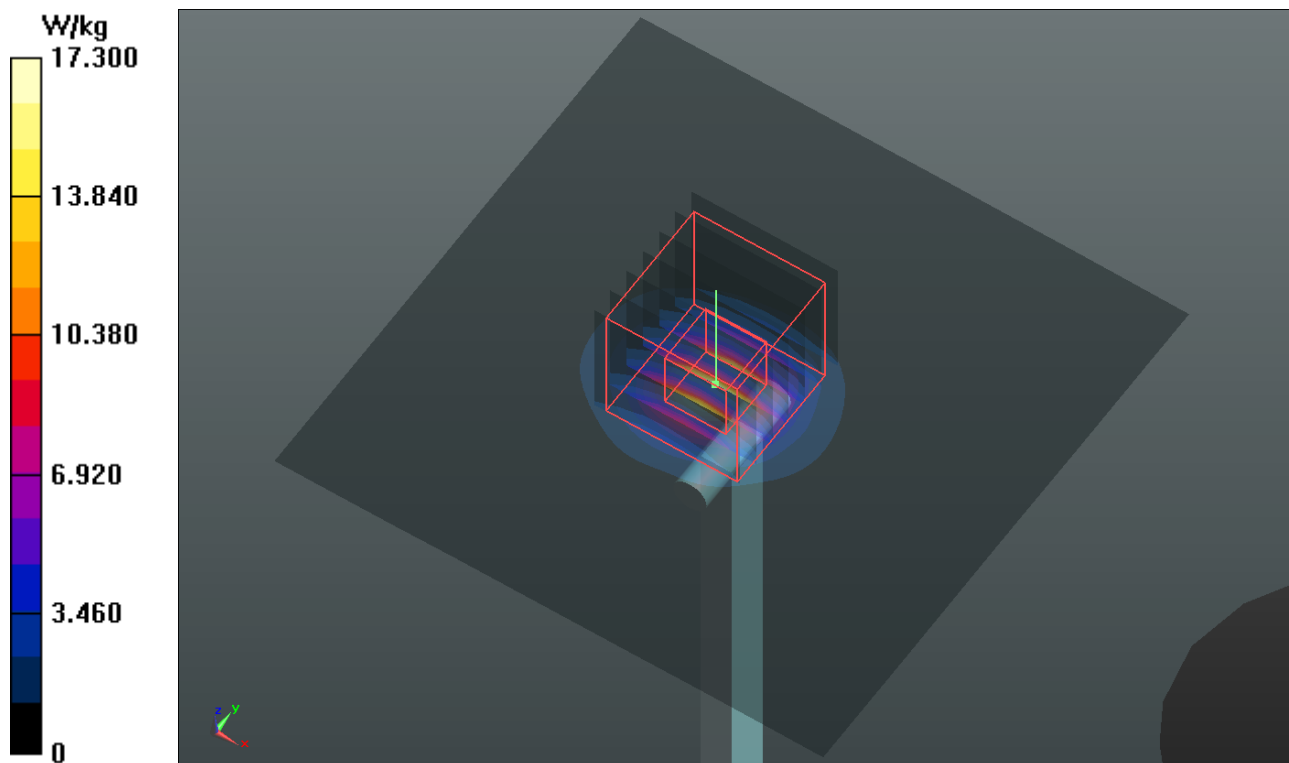
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(5.13, 5.13, 5.13); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 17.3 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 59.404 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 34.3 W/kg  
**SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.26 W/kg**  
Maximum value of SAR (measured) = 16.5 W/kg



## System Check\_H5600\_130829

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H5G\_0829 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.277$  S/m;  $\epsilon_r = 35.386$ ;  $\rho = 1000$  kg/m<sup>3</sup>

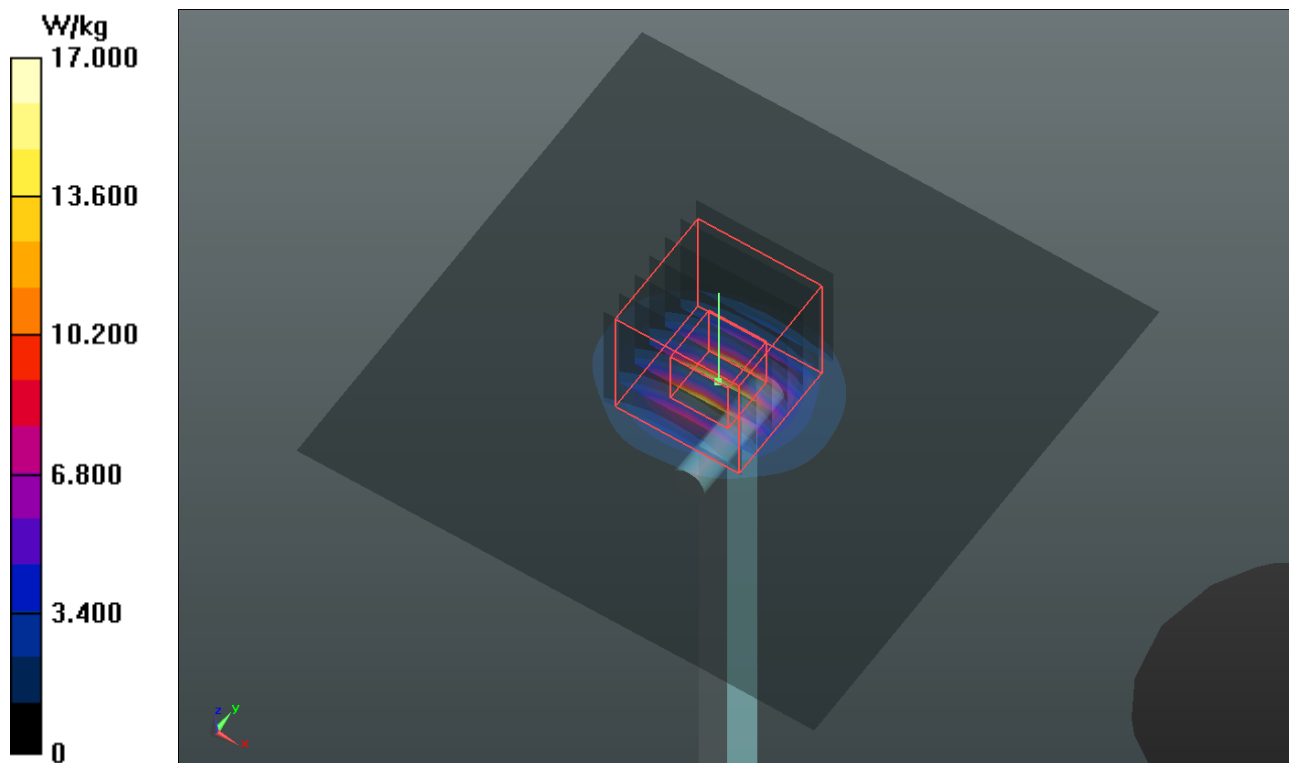
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.78, 4.78, 4.78); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 17.0 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 58.426 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 34.3 W/kg  
**SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.25 W/kg**  
Maximum value of SAR (measured) = 16.6 W/kg



### System Check\_H5800\_130829

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

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

Medium: H5G\_0829 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.497$  S/m;  $\epsilon_r = 35.045$ ;  $\rho = 1000$  kg/m<sup>3</sup>

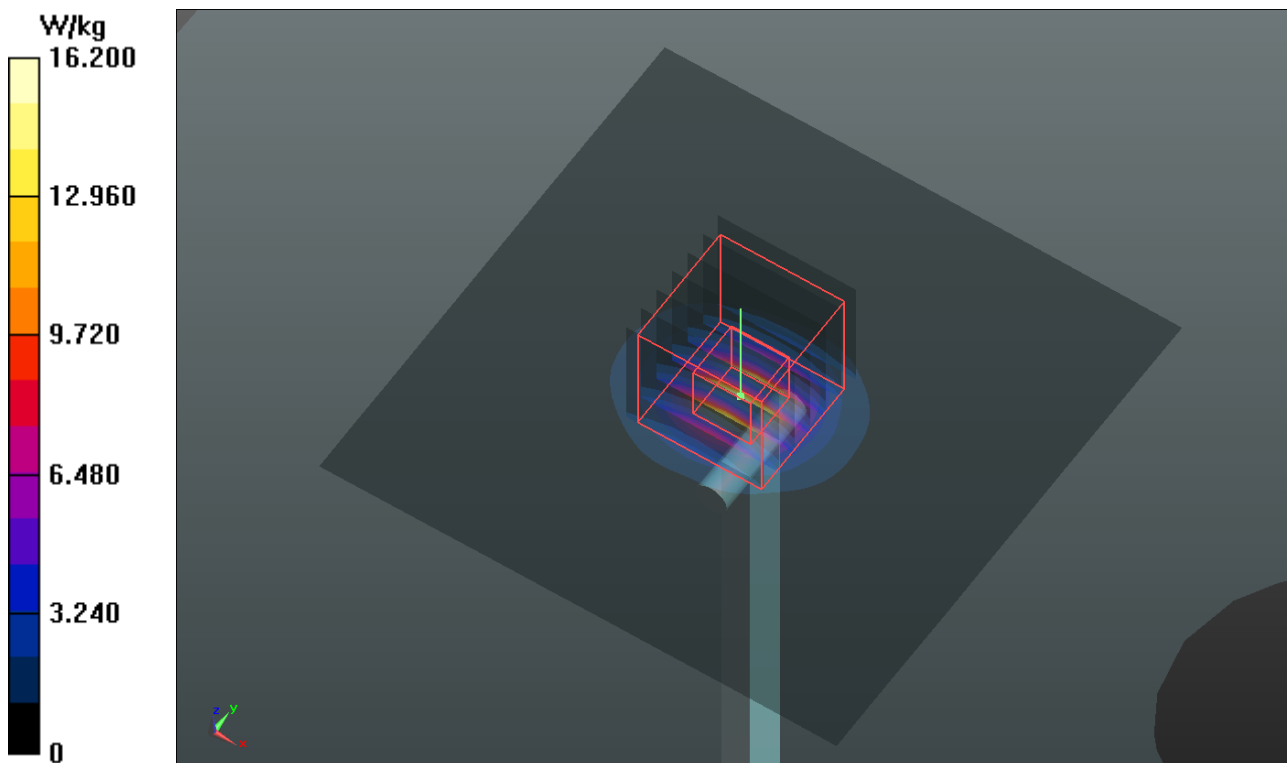
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.67, 4.67, 4.67); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 16.2 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 56.672 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 34.0 W/kg  
**SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.11 W/kg**  
Maximum value of SAR (measured) = 16.1 W/kg



## System Check\_B750\_130830

**DUT: Dipole 750 MHz; Type: D750V3; SN: 1013**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: B750\_0830 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.966$  S/m;  $\epsilon_r = 55.257$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.51, 9.51, 9.51); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.94 W/kg

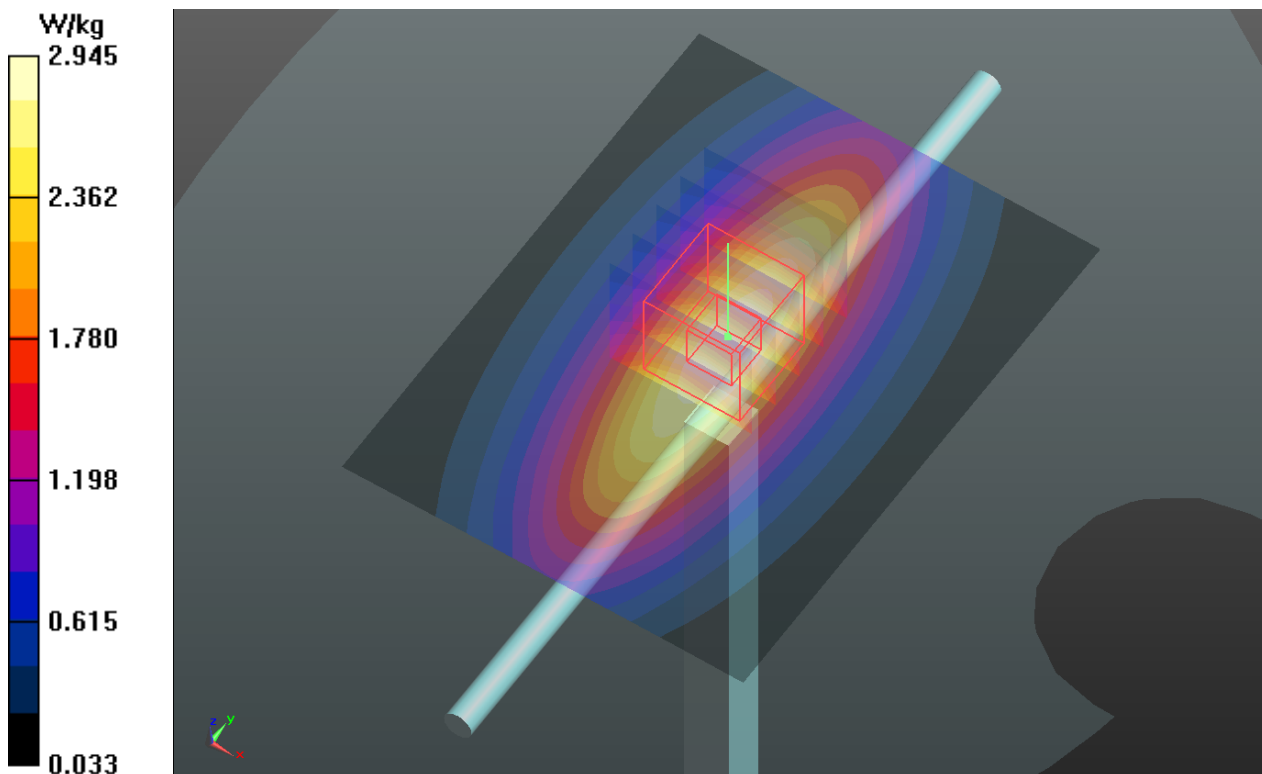
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.226 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.44 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.58 W/kg**

Maximum value of SAR (measured) = 2.94 W/kg



## System Check\_B835\_130825

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

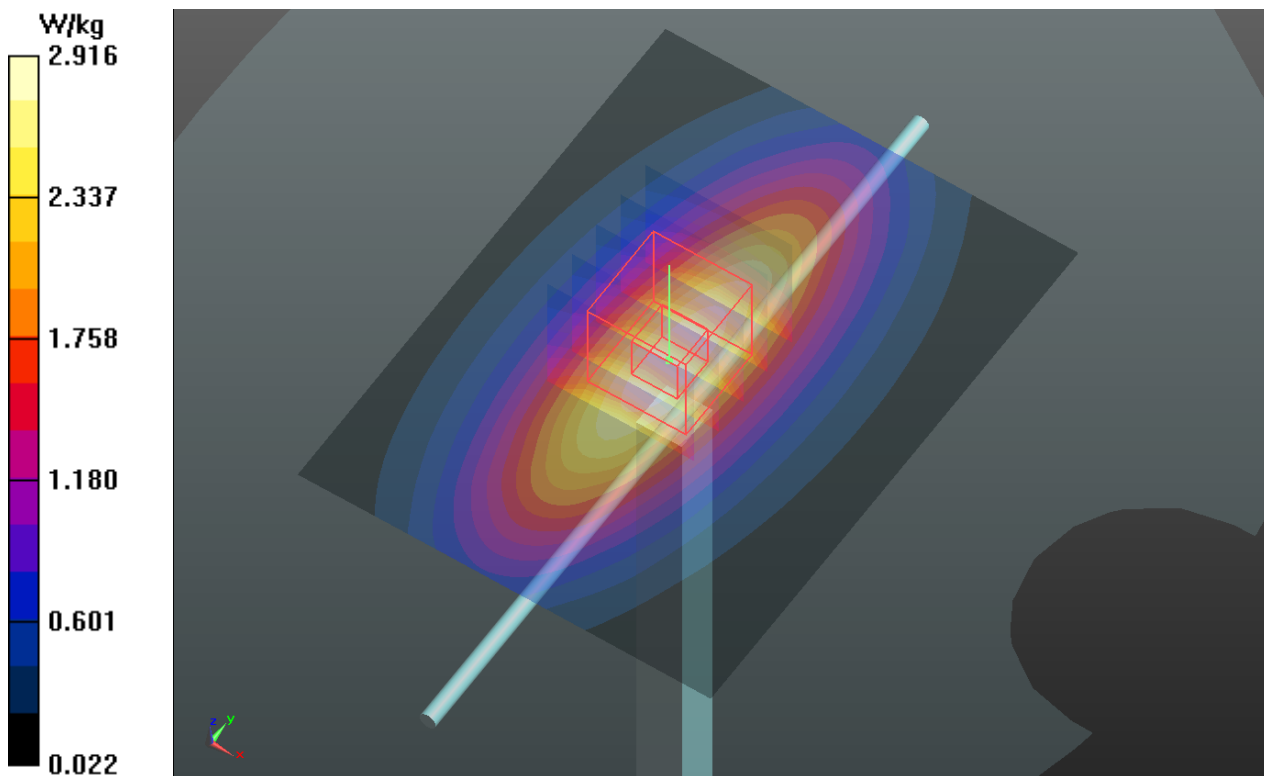
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: B835\_0825 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.972 \text{ S/m}$ ;  $\epsilon_r = 54.017$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 21.4 °C; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.43, 10.43, 10.43); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 2.92 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 55.294 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 3.45 W/kg  
**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.53 W/kg**  
Maximum value of SAR (measured) = 2.94 W/kg



## System Check\_B835\_130830

**DUT: Dipole 835 MHz; Type: D835V2; SN: 4d121**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B835\_0830 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.973$  S/m;  $\epsilon_r = 54.051$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.35, 9.35, 9.35); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.09 W/kg

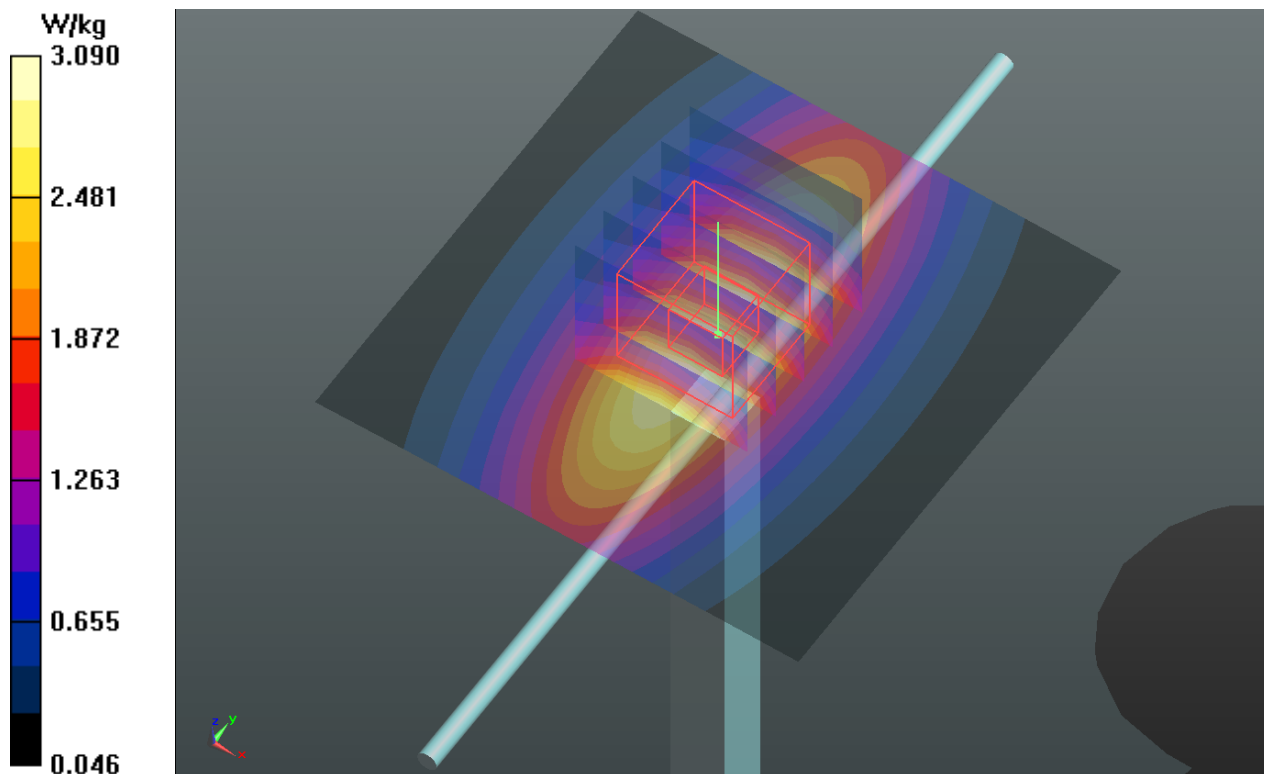
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.840 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.62 W/kg

**SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.57 W/kg**

Maximum value of SAR (measured) = 3.03 W/kg



### System Check\_B1750\_130826

**DUT: Dipole 1750 MHz; Type: D1750V2; SN: 1023**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: B1750\_0826 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.499$  S/m;  $\epsilon_r = 52.487$ ;  $\rho = 1000$  kg/m<sup>3</sup>

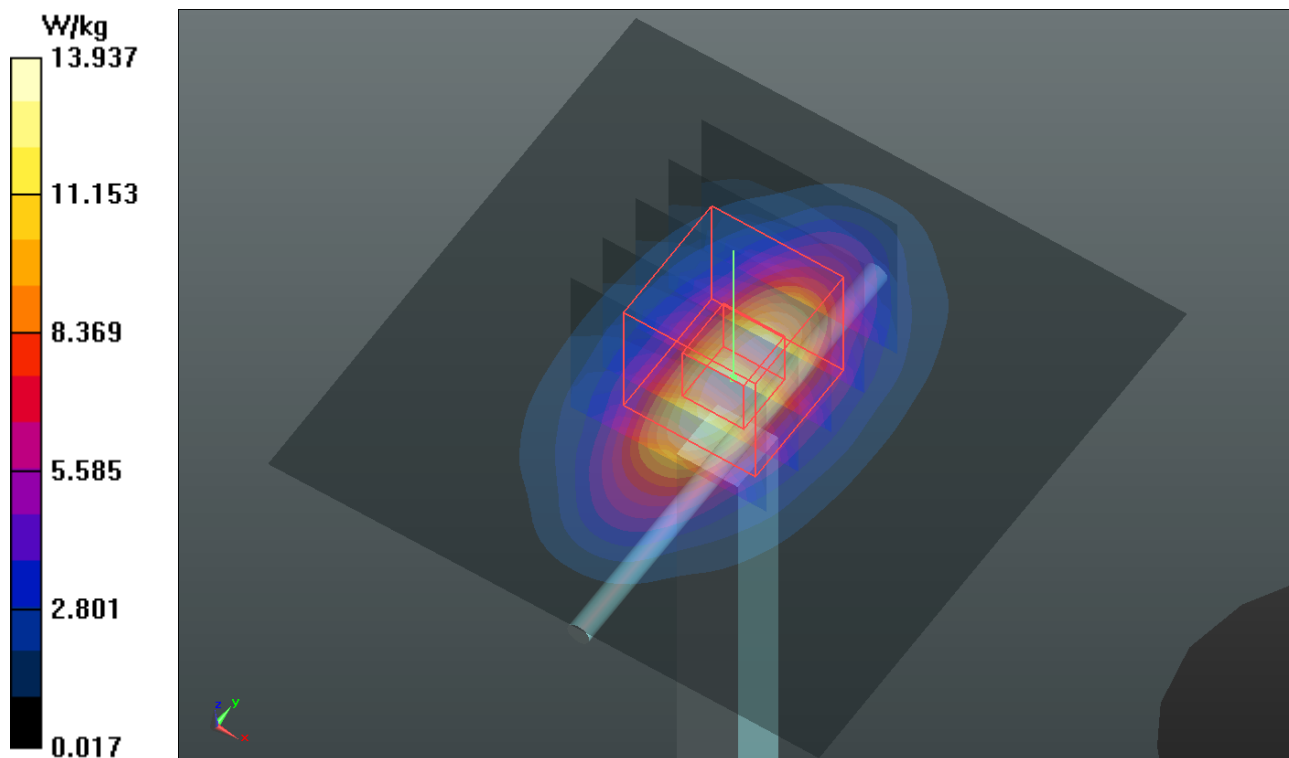
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(8.1, 8.1, 8.1); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 13.9 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 97.929 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 17.2 W/kg  
**SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.33 W/kg**  
Maximum value of SAR (measured) = 13.9 W/kg





## System Check\_B1900\_130824

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_0824 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.559$  S/m;  $\epsilon_r = 53.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.7 °C; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.39, 7.39, 7.39); Calibrated: 2013/04/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2013/07/26
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.7 W/kg

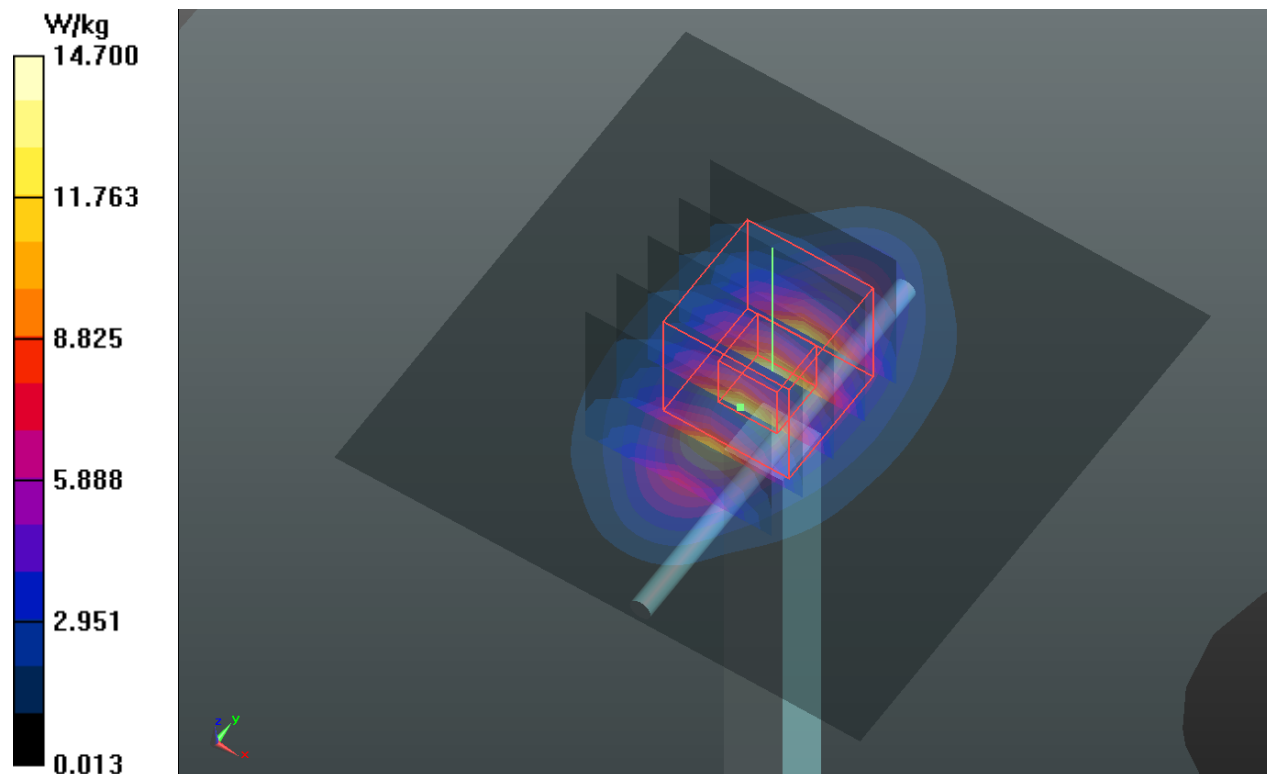
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.091 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.19 W/kg**

Maximum value of SAR (measured) = 14.1 W/kg



### System Check\_B1900\_130826

**DUT: Dipole 1900 MHz; Type: D1900V2; SN: 5d036**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_0826 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.633$ ;  $\rho = 1000$  kg/m<sup>3</sup>

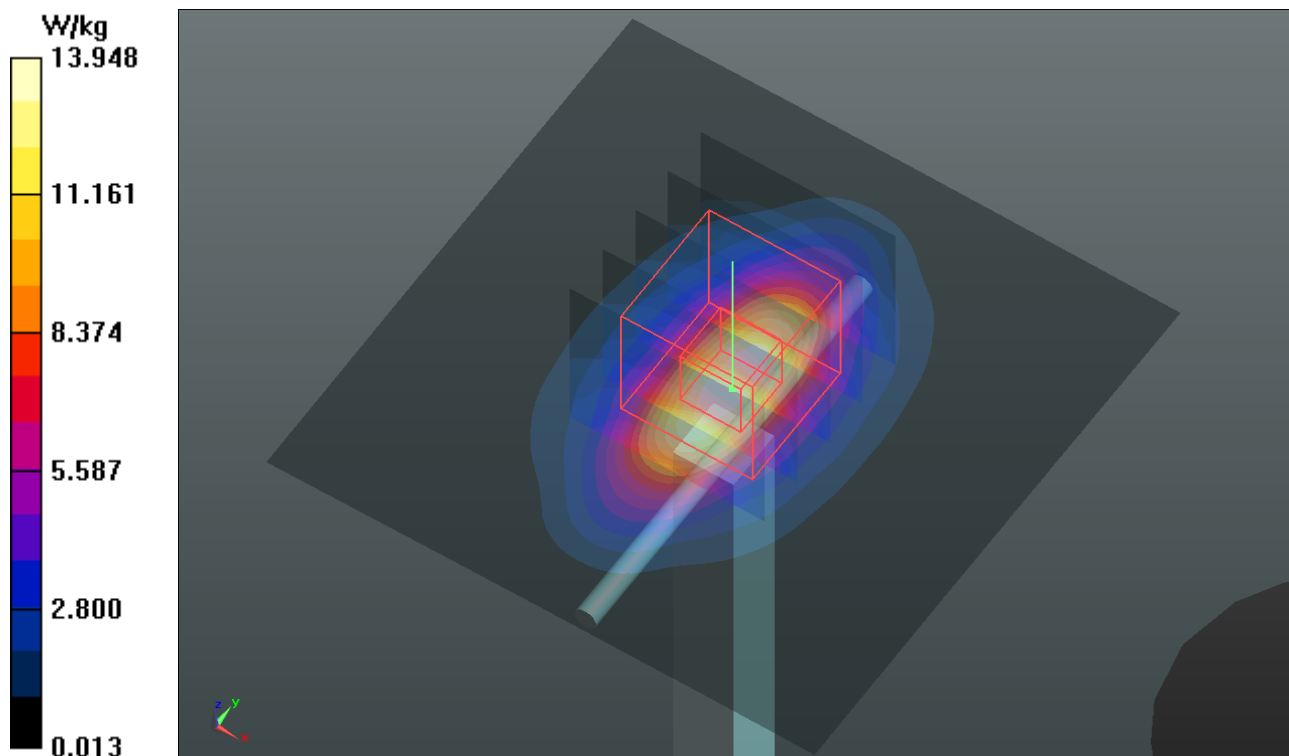
Ambient Temperature : 21.4 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.87, 7.87, 7.87); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1653
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 13.9 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 96.453 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 17.6 W/kg  
**SAR(1 g) = 9.77 W/kg; SAR(10 g) = 5.06 W/kg**  
Maximum value of SAR (measured) = 14.0 W/kg



### System Check\_B2450\_130827

**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

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

Medium: B2450\_0827 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.979$  S/m;  $\epsilon_r = 51.322$ ;  $\rho = 1000$  kg/m<sup>3</sup>

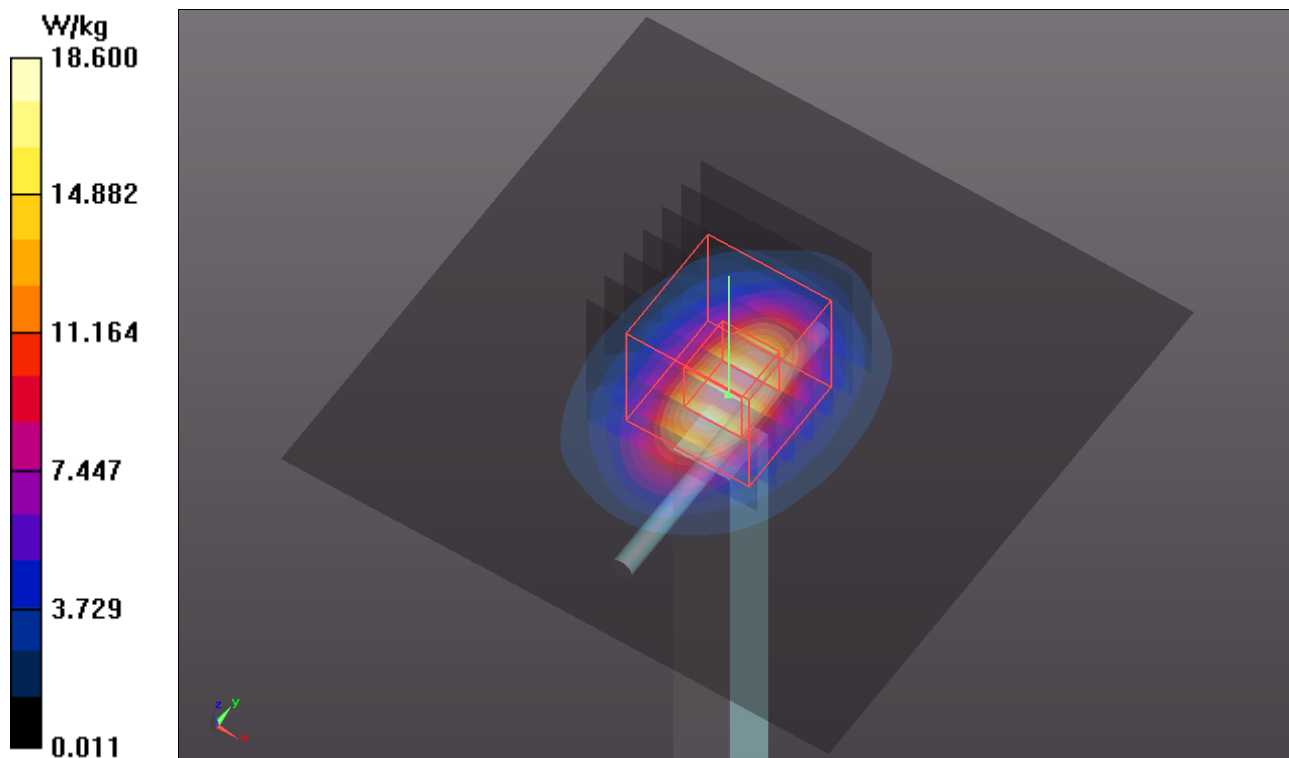
Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(7.4, 7.4, 7.4); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: ELI v4.0\_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 18.6 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 97.575 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 25.3 W/kg  
**SAR(1 g) = 12 W/kg; SAR(10 g) = 5.53 W/kg**  
Maximum value of SAR (measured) = 18.6 W/kg



### System Check\_B5200\_130826

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

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

Medium: B5G\_0826 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.351$  S/m;  $\epsilon_r = 47.485$ ;  $\rho = 1000$  kg/m<sup>3</sup>

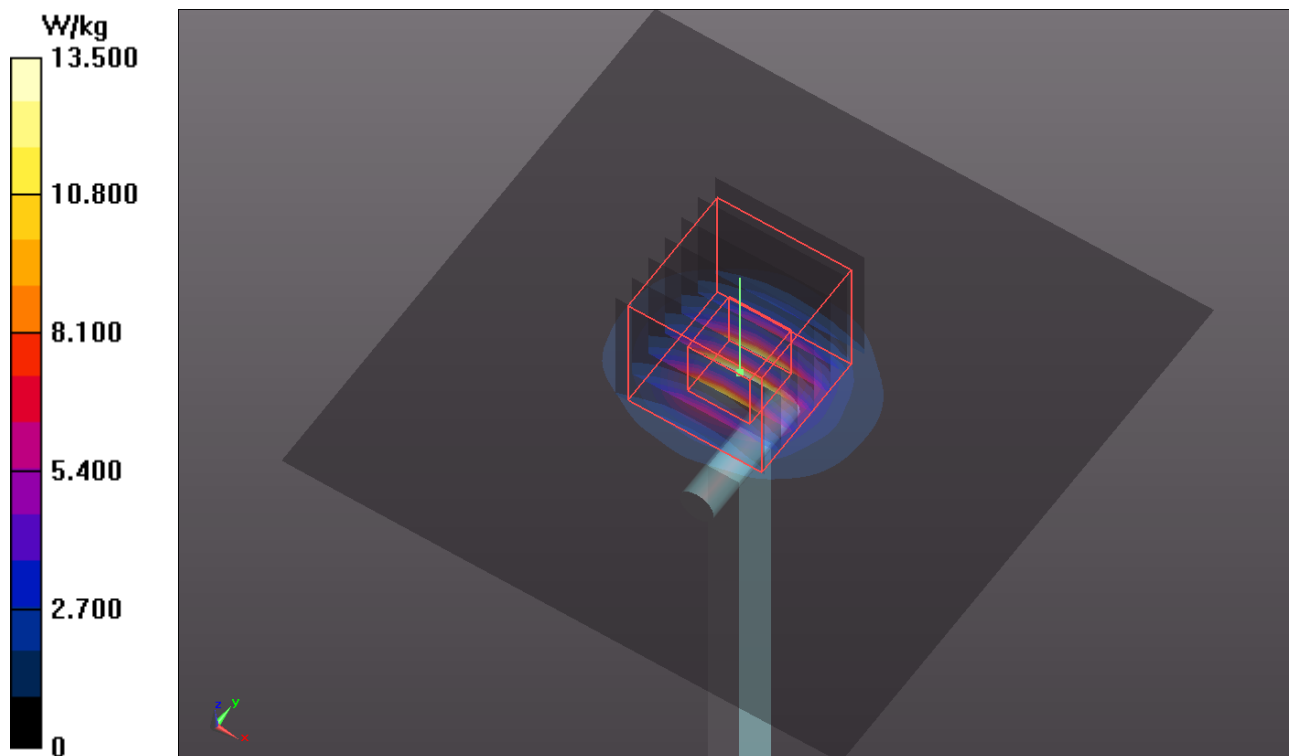
Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: ELI v4.0\_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 13.5 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 54.713 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 27.7 W/kg  
**SAR(1 g) = 7.03 W/kg; SAR(10 g) = 2 W/kg**  
Maximum value of SAR (measured) = 14.6 W/kg



## System Check\_B5300\_130826

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: B5G\_0826 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.482$  S/m;  $\epsilon_r = 47.304$ ;  $\rho = 1000$  kg/m<sup>3</sup>

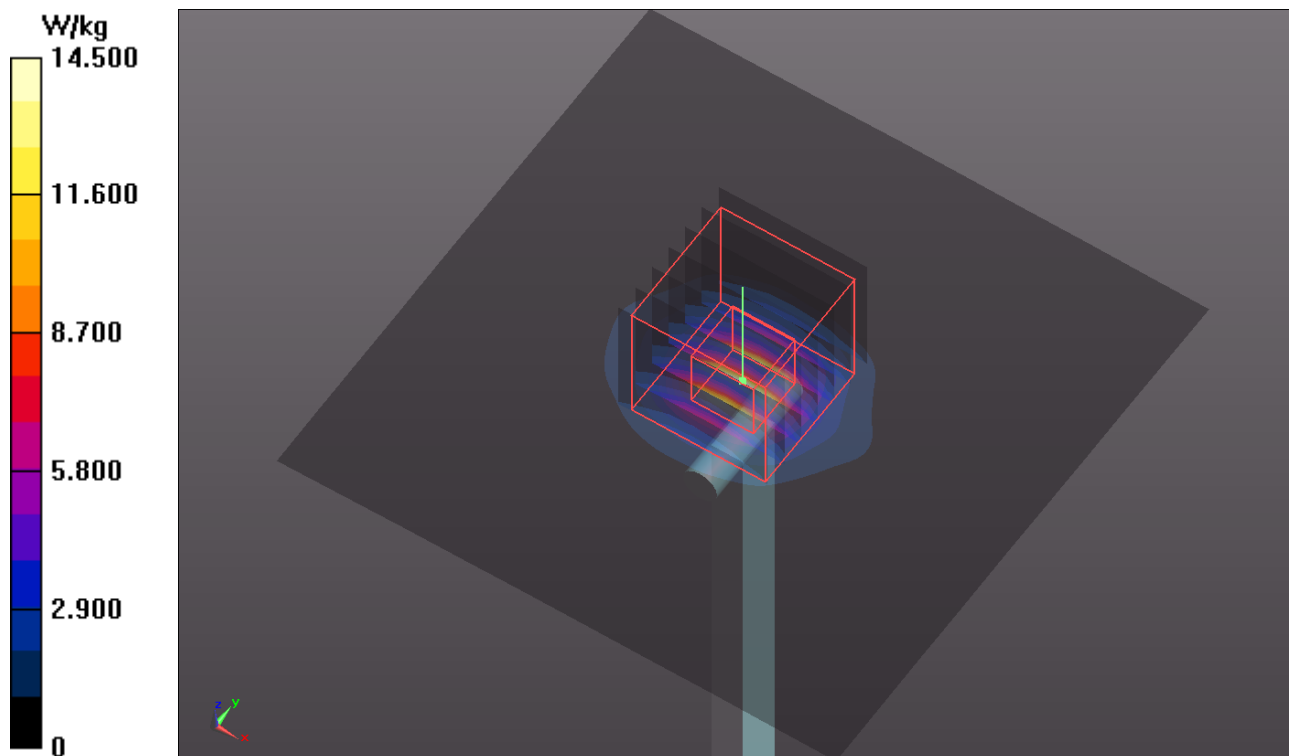
Ambient Temperature : 21.3 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3864; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/07/31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2013/04/24
- Phantom: ELI v4.0\_Right; Type: QDOVA001BA; Serial: TP:1043
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 14.5 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 57.124 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 31.1 W/kg  
**SAR(1 g) = 7.3 W/kg; SAR(10 g) = 2.03 W/kg**  
Maximum value of SAR (measured) = 15.6 W/kg



## System Check\_B5600\_130824

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: B5G\_0824 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.92$  S/m;  $\epsilon_r = 46.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

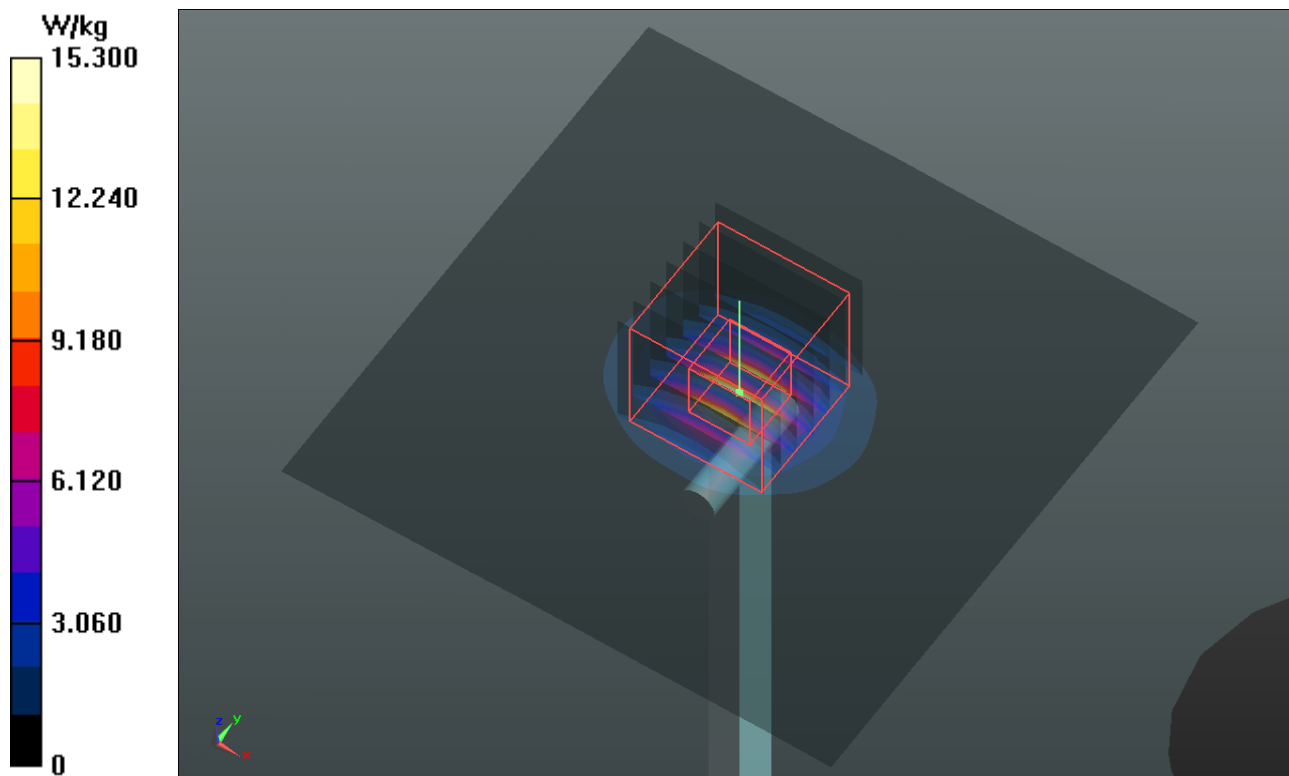
Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(4.46, 4.46, 4.46); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 15.3 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 56.133 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 34.5 W/kg  
**SAR(1 g) = 7.56 W/kg; SAR(10 g) = 2.08 W/kg**  
Maximum value of SAR (measured) = 16.3 W/kg



## System Check\_B5800\_130824

**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

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

Medium: B5G\_0824 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.209$  S/m;  $\epsilon_r = 46.515$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(4.72, 4.72, 4.72); Calibrated: 2013/02/20;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2013/01/30
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 13.6 W/kg

**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 51.560 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 29.9 W/kg  
**SAR(1 g) = 6.76 W/kg; SAR(10 g) = 1.89 W/kg**  
Maximum value of SAR (measured) = 14.6 W/kg

