



## ***Appendix B. Plots of SAR Measurement***

The plots are shown as follows.

**05 GSM850\_Right Cheek\_Ch128****DUT: 222801**

Communication System: Generic GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL\_850\_120229 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.892$  mho/m;  $\epsilon_r = 40.852$ ;

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch128/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.185 mW/g

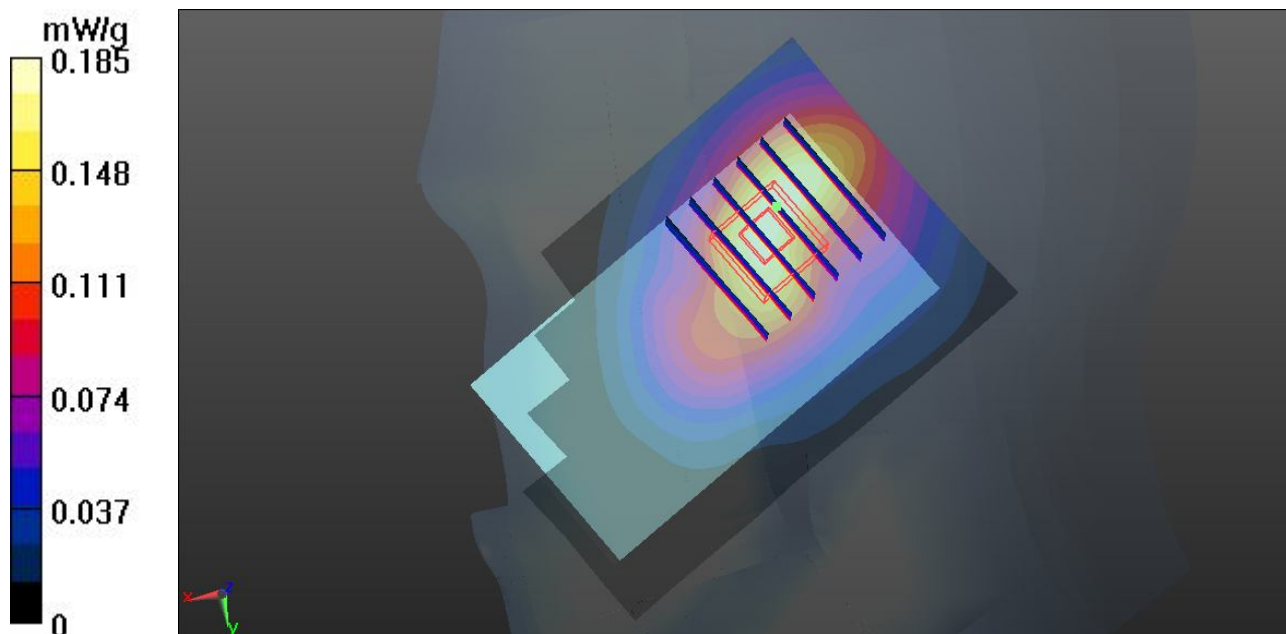
**Ch128/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.515 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.3160

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.109 mW/g**

Maximum value of SAR (measured) = 0.189 mW/g



**05 GSM850\_Right Cheek\_Ch128\_2D****DUT: 222801**

Communication System: Generic GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL\_850\_120229 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.892$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.4 °C ; Liquid Temperature : 21.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch128/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.185 mW/g

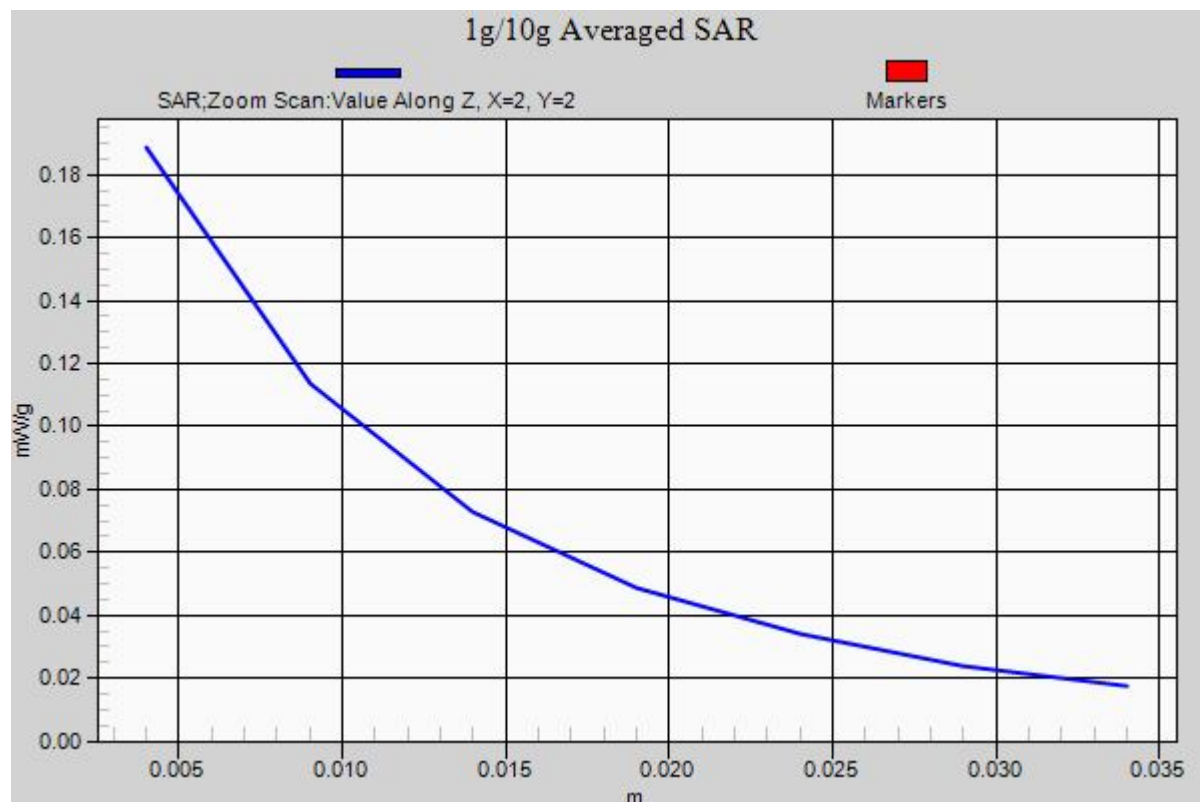
**Ch128/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.515 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.3160

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.109 mW/g**

Maximum value of SAR (measured) = 0.189 mW/g



**06 GSM850\_Right Tilted\_Ch128****DUT: 222801**

Communication System: Generic GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL\_850\_120229 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.892$  mho/m;  $\epsilon_r = 40.852$ ;

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

Ambient Temperature : 23.4 °C ; Liquid Temperature : 21.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch128/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.156 mW/g

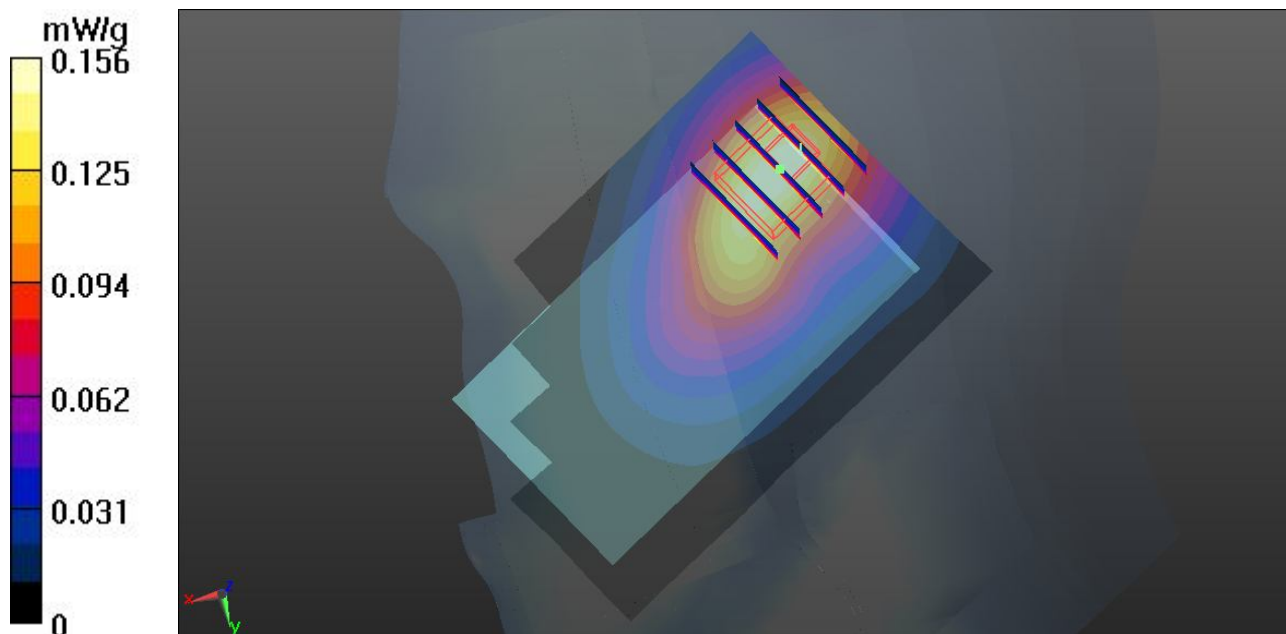
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.563 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.2260

**SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.090 mW/g**

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



**07 GSM850\_Left Cheek\_Ch128****DUT: 222801**

Communication System: Generic GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL\_850\_120229 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.892$  mho/m;  $\epsilon_r = 40.852$ ;

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch128/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.155 mW/g

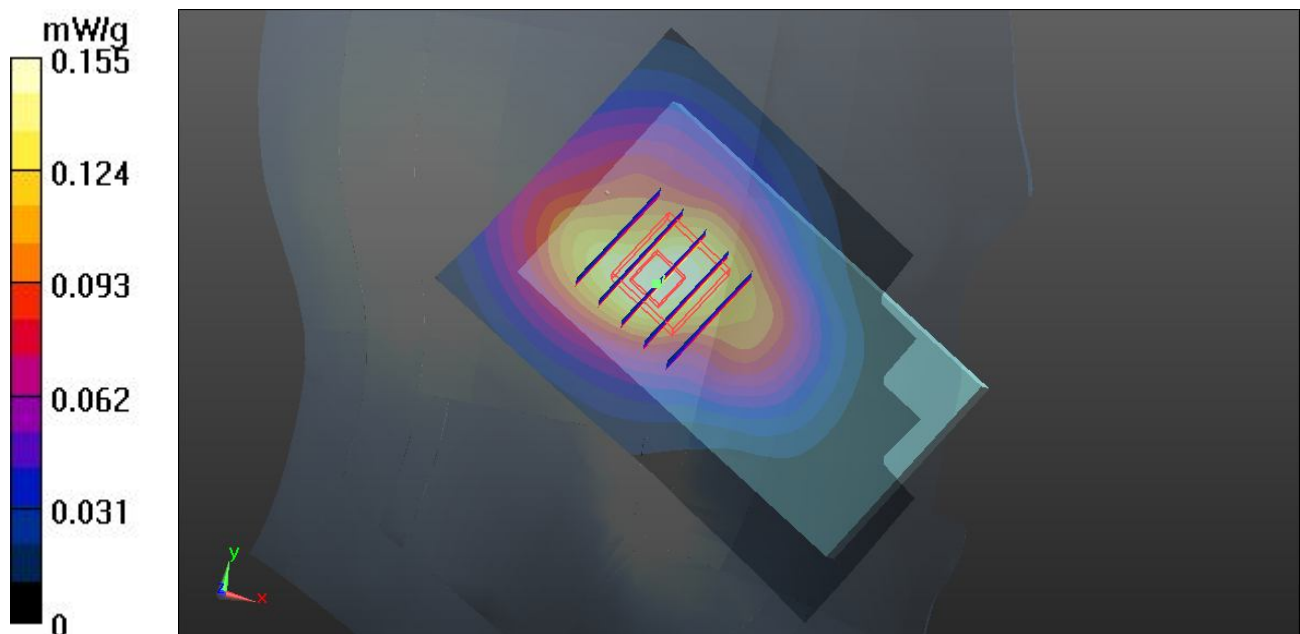
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.873 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.2430

**SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.100 mW/g**

Maximum value of SAR (measured) = 0.163 mW/g



**08 GSM850\_Left Tilted\_Ch128****DUT: 222801**

Communication System: Generic GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: HSL\_850\_120229 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.892$  mho/m;  $\epsilon_r = 40.852$ ;

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.4, 9.4, 9.4); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch128/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.151 mW/g

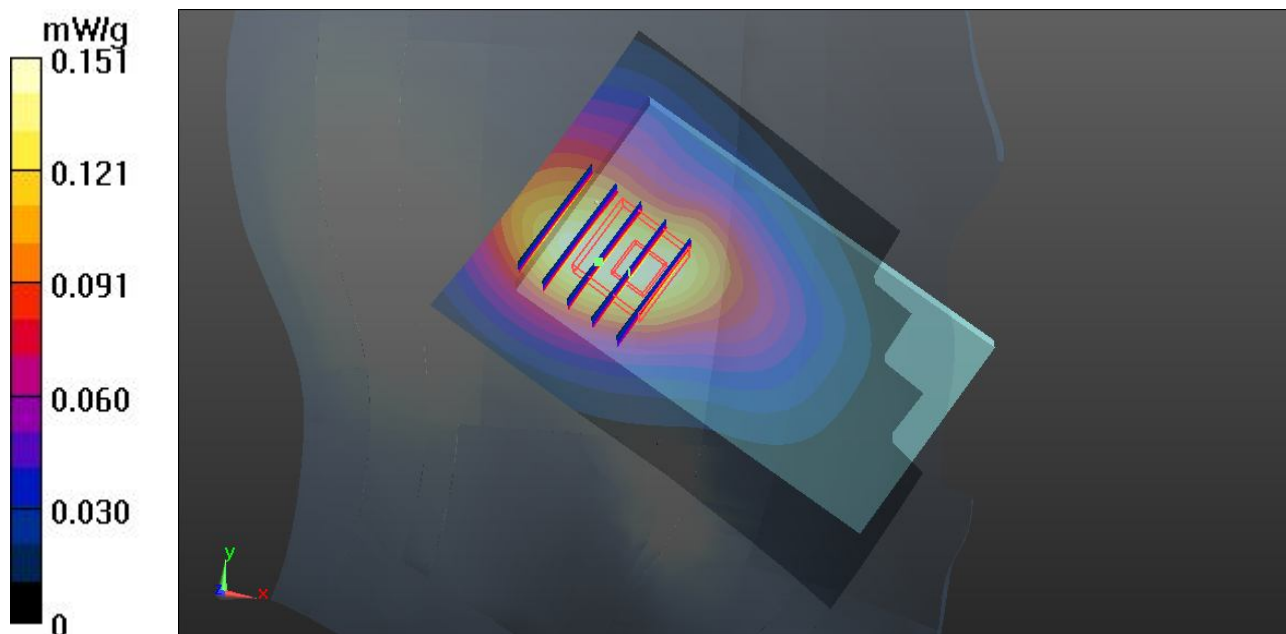
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.266 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.2140

**SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.093 mW/g**

Maximum value of SAR (measured) = 0.148 mW/g



### 13 GSM1900\_Right Cheek\_Ch810

#### DUT: 222801

Communication System: Generic GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL\_1900\_120301 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.422$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.4 °C ; Liquid Temperature : 21.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.530 mW/g

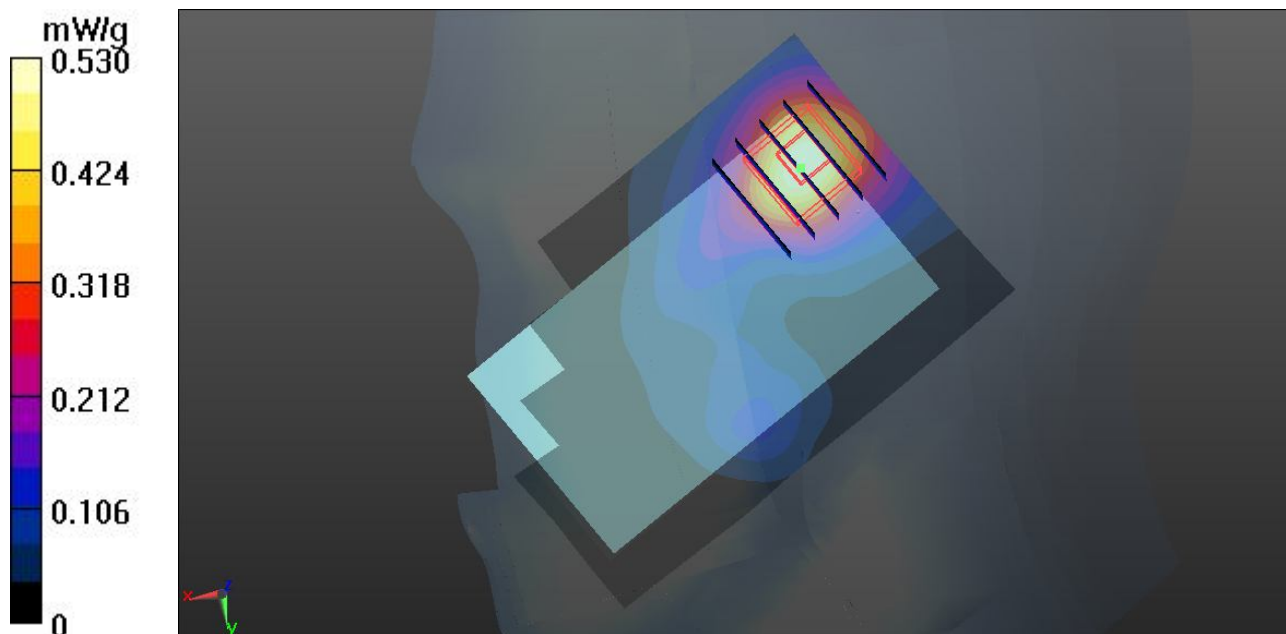
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.239 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.8740

**SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.281 mW/g**

Maximum value of SAR (measured) = 0.542 mW/g





## 14 GSM1900\_Right Tilted\_Ch810

### DUT: 222801

Communication System: Generic GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL\_1900\_120301 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.422$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.632 mW/g

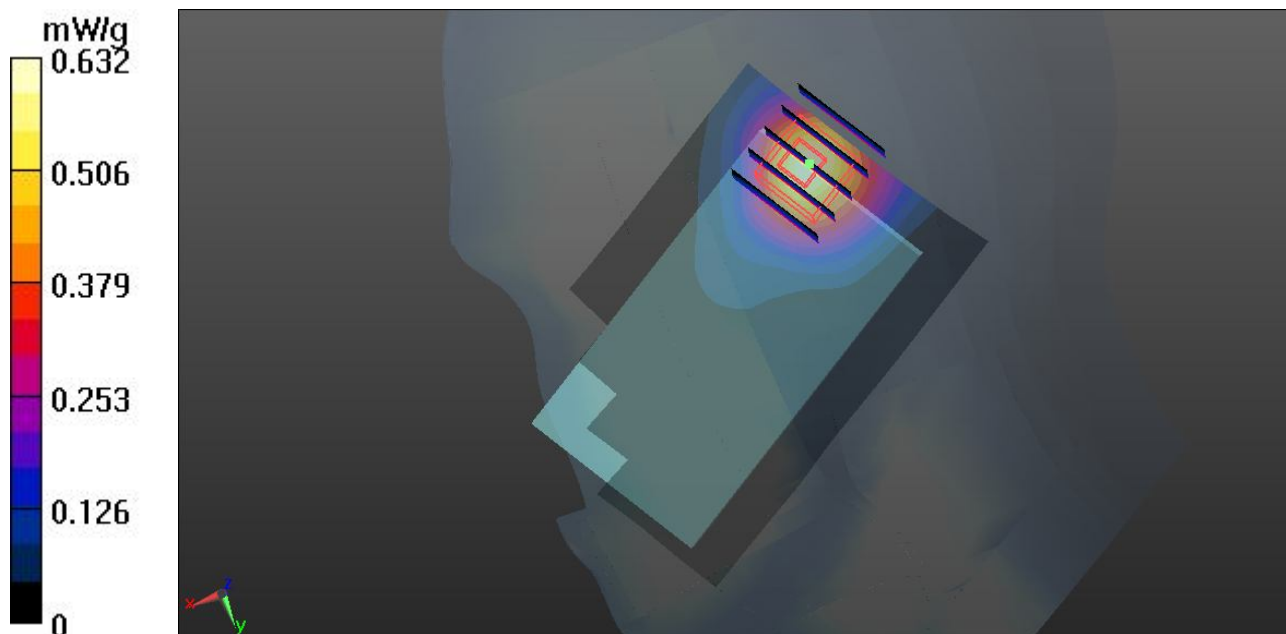
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.049 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.9740

**SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.311 mW/g**

Maximum value of SAR (measured) = 0.570 mW/g





**14 GSM1900\_Right Tilted\_Ch810\_2D****DUT: 222801**

Communication System: Generic GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL\_1900\_120301 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.422$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.4 °C ; Liquid Temperature : 21.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.632 mW/g

**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.049 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.9740

**SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.311 mW/g**

Maximum value of SAR (measured) = 0.570 mW/g



**15 GSM1900\_Left Cheek\_Ch810****DUT: 222801**

Communication System: Generic GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL\_1900\_120301 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.422$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.4 °C ; Liquid Temperature : 21.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.381 mW/g

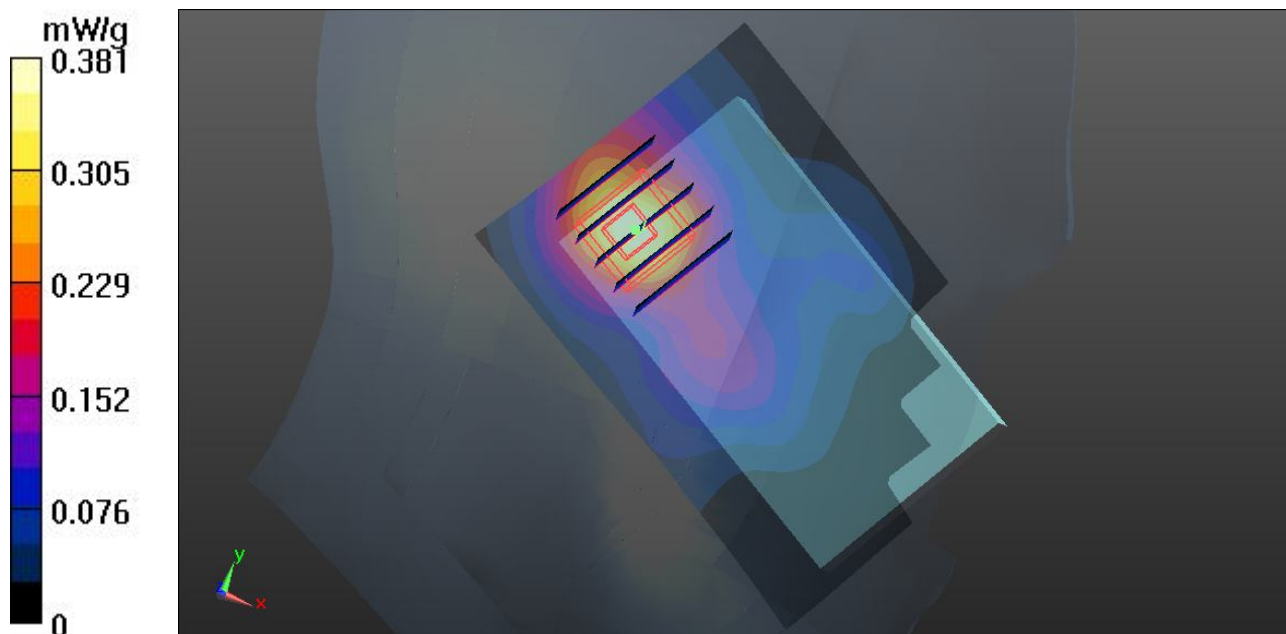
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.580 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.5740

**SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.203 mW/g**

Maximum value of SAR (measured) = 0.385 mW/g



**16 GSM1900\_Left Tilted\_Ch810****DUT: 222801**

Communication System: Generic GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL\_1900\_120301 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.422$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 21.7 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(8.36, 8.36, 8.36); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.523 mW/g

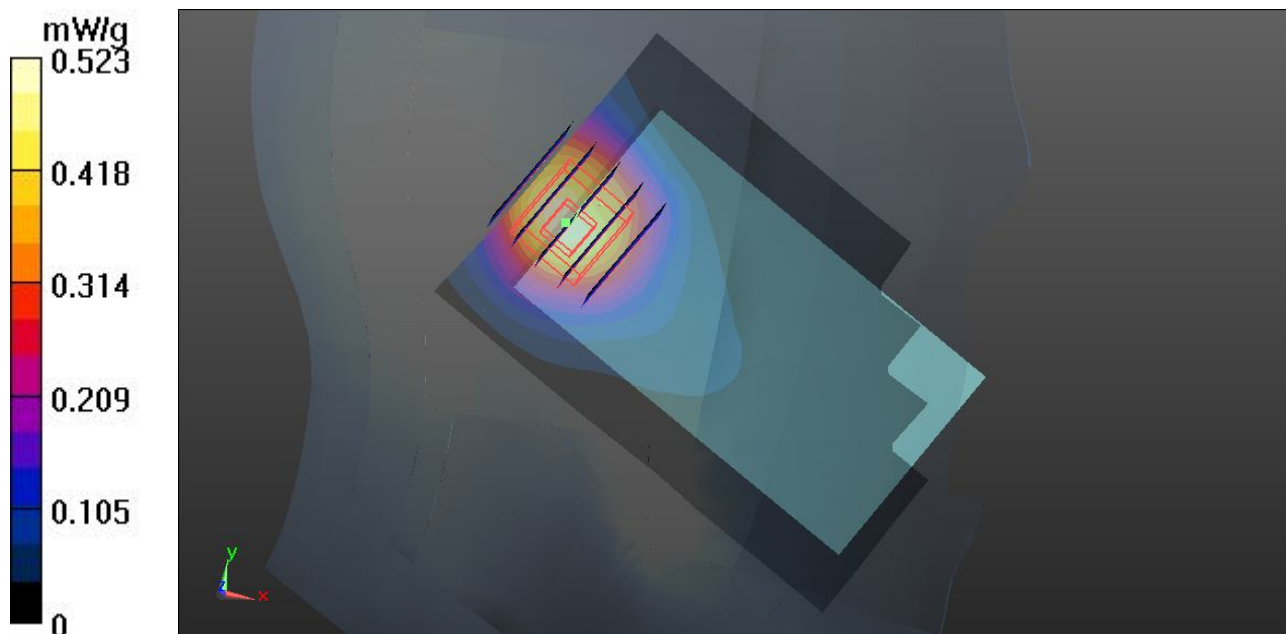
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.005 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.7650

**SAR(1 g) = 0.455 mW/g; SAR(10 g) = 0.266 mW/g**

Maximum value of SAR (measured) = 0.486 mW/g



**01 GSM850\_GPRS12\_Face\_1.5cm\_Ch189****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 836.4 MHz; Duty Cycle: 1:2

Medium: MSL\_850\_120229 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.7 °C; Liquid Temperature : 21.5 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch189/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.390 mW/g

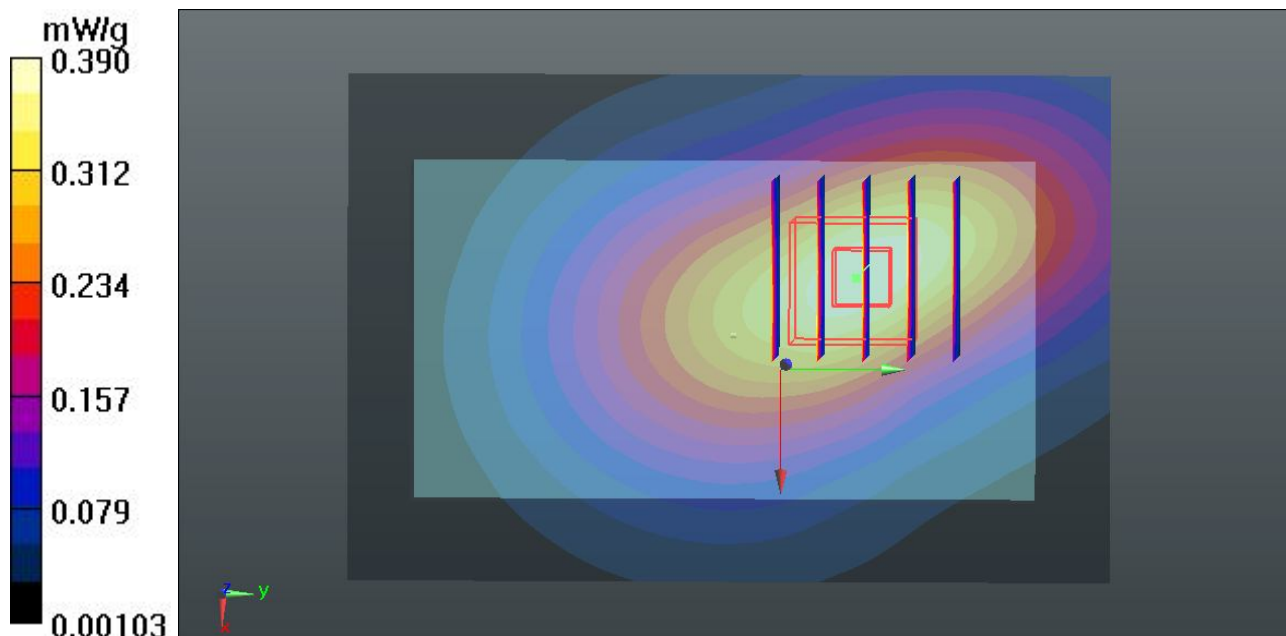
**Ch189/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.713 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.5010

**SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.246 mW/g**

Maximum value of SAR (measured) = 0.384 mW/g



**02 GSM850\_GPRS12\_Bottom\_1.5cm\_Ch189****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 836.4 MHz; Duty Cycle: 1:2

Medium: MSL\_850\_120229 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.978$  mho/m;  $\epsilon_r =$ 54.357;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch189/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.244 mW/g

**Ch189/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.162 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.5510

**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.810 mW/g**

Maximum value of SAR (measured) = 1.212 mW/g

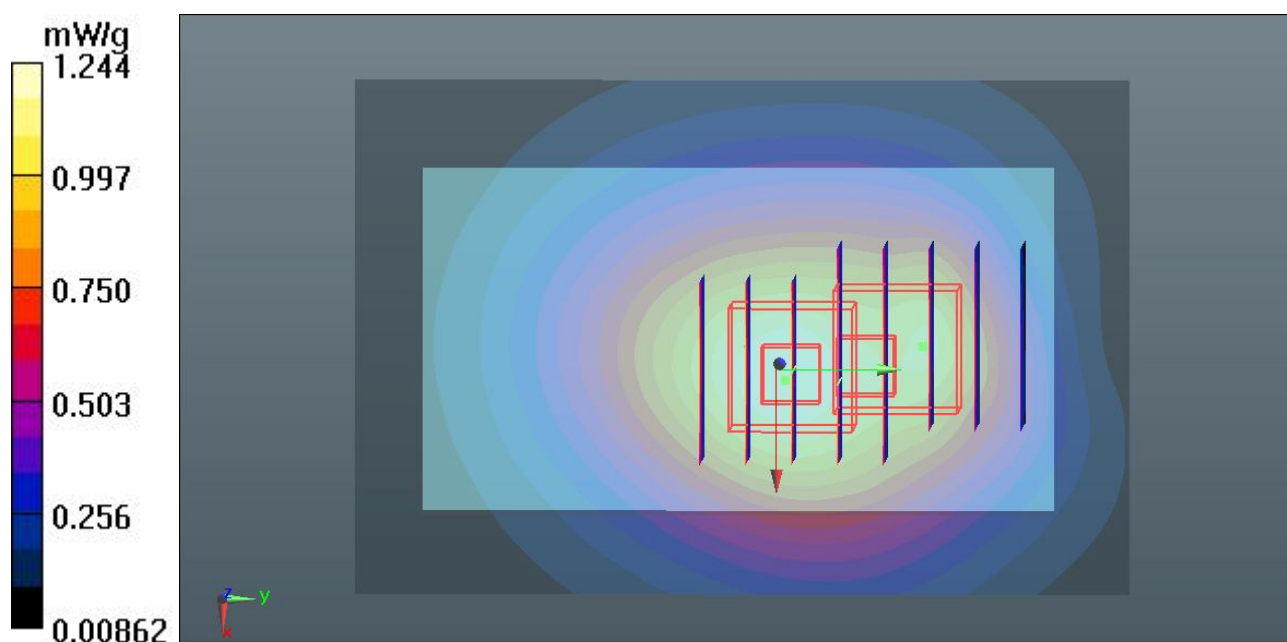
**Ch189/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.162 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.4910

**SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.693 mW/g**

Maximum value of SAR (measured) = 1.153 mW/g



## **02 GSM850\_GPRS12\_Bottom\_1.5cm\_Ch189\_2D**

### **DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 836.4 MHz; Duty Cycle: 1:2  
Medium: MSL\_850\_120229 Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 54.357$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.7 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $21.5 \text{ }^\circ\text{C}$

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

#### **Ch189/Area Scan (61x91x1):** Measurement grid: $dx=15\text{mm}$ , $dy=15\text{mm}$

Maximum value of SAR (interpolated) =  $1.244 \text{ mW/g}$

#### **Ch189/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$ , $dy=8\text{mm}$ , $dz=5\text{mm}$

Reference Value =  $34.162 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $1.5510$

**SAR(1 g) =  $1.14 \text{ mW/g}$ ; SAR(10 g) =  $0.810 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.212 \text{ mW/g}$

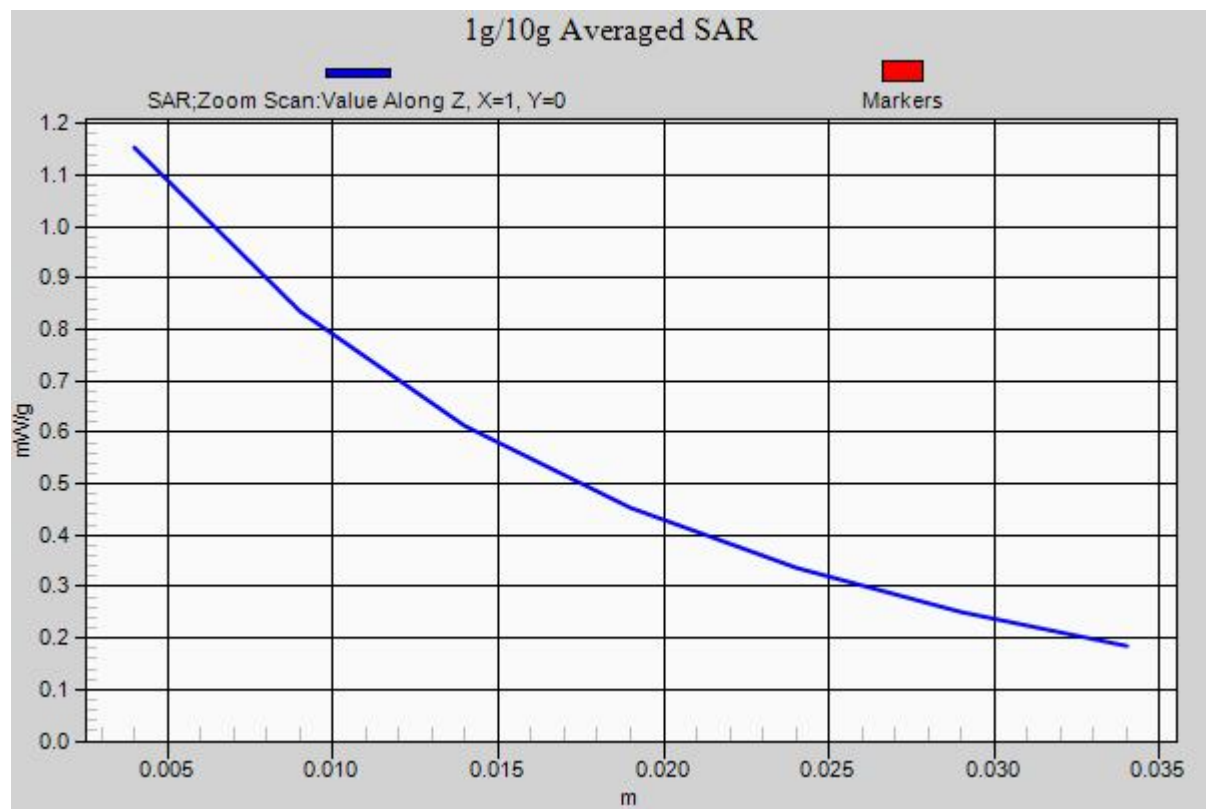
#### **Ch189/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: $dx=8\text{mm}$ , $dy=8\text{mm}$ , $dz=5\text{mm}$

Reference Value =  $34.162 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $1.4910$

**SAR(1 g) =  $0.998 \text{ mW/g}$ ; SAR(10 g) =  $0.693 \text{ mW/g}$**

Maximum value of SAR (measured) =  $1.153 \text{ mW/g}$





**03 GSM850\_GPRS12\_Bottom\_1.5cm\_Ch128****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 824.2 MHz; Duty Cycle: 1:2

Medium: MSL\_850\_120229 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.966$  mho/m;  $\epsilon_r =$ 54.448;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch128/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.160 mW/g

**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.146 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.4760

**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.769 mW/g**

Maximum value of SAR (measured) = 1.157 mW/g

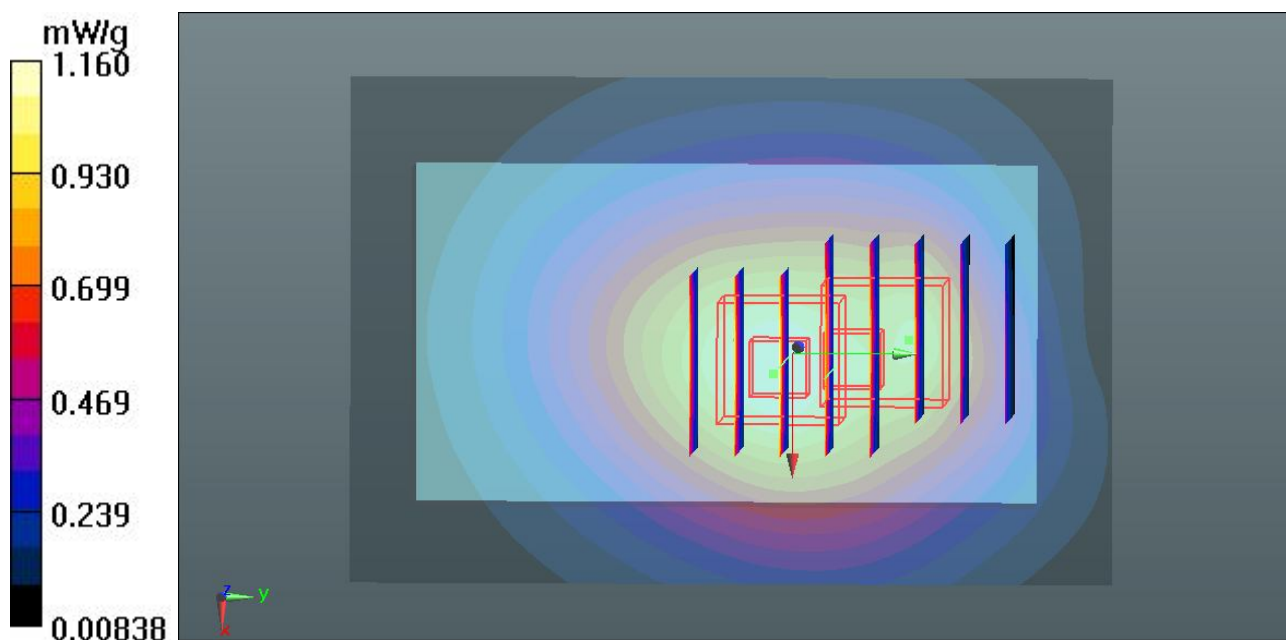
**Ch128/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.146 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.3980

**SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.654 mW/g**

Maximum value of SAR (measured) = 1.081 mW/g



**04 GSM850\_GPRS12\_Bottom\_1.5cm\_Ch251****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 848.8 MHz; Duty Cycle: 1:2

Medium: MSL\_850\_120229 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 54.251$ ; $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C ; Liquid Temperature : 21.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.72, 9.72, 9.72); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch251/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.969 mW/g

**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.193 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.2500

**SAR(1 g) = 0.923 mW/g; SAR(10 g) = 0.653 mW/g**

Maximum value of SAR (measured) = 0.980 mW/g

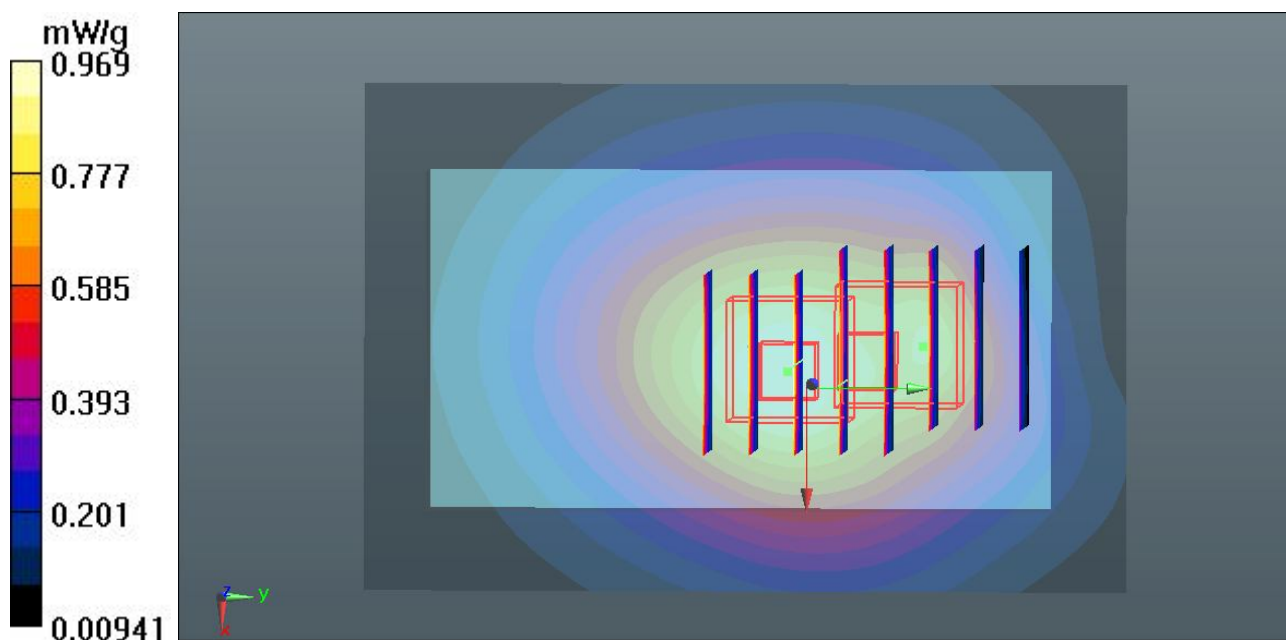
**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.193 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.1870

**SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.552 mW/g**

Maximum value of SAR (measured) = 0.912 mW/g



**09 GSM1900\_GPRS12\_Face\_1.5cm\_Ch810****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL\_1900\_120229 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.511$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.655 mW/g

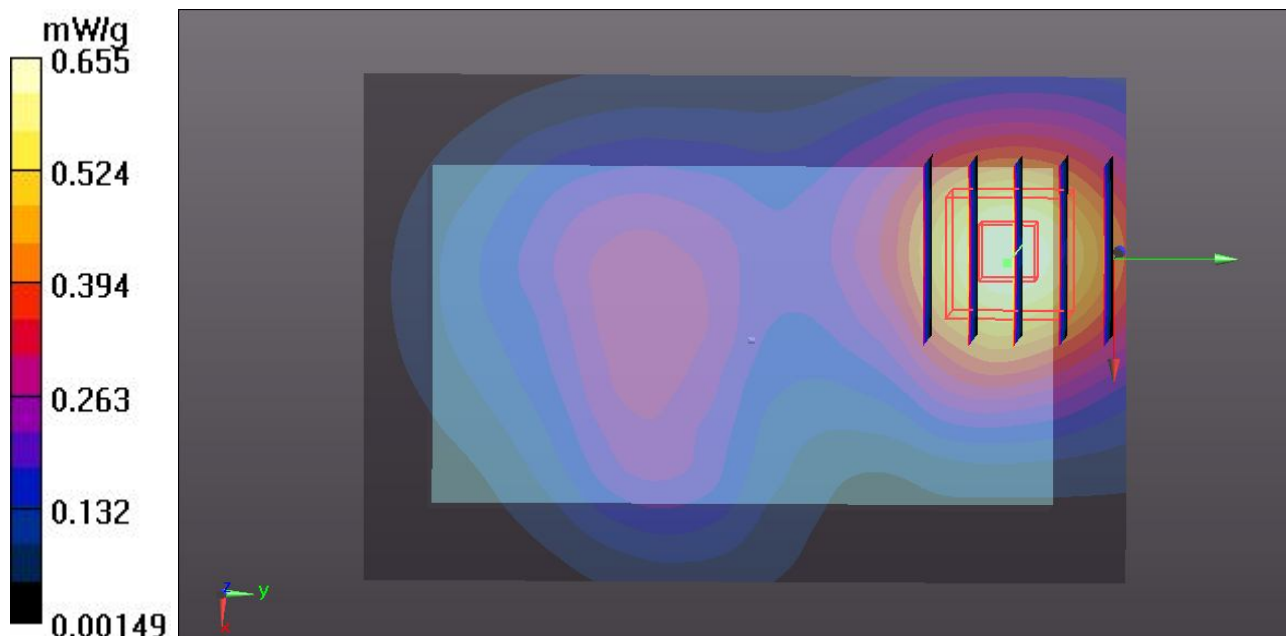
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.367 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.9640

**SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.368 mW/g**

Maximum value of SAR (measured) = 0.658 mW/g



**10 GSM1900\_GPRS12\_Bottom\_1.5cm\_Ch810****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL\_1900\_120229 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.511$  mho/m;  $\epsilon_r =$ 53.819;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 21.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch810/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.979 mW/g

**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.791 V/m; Power Drift = 0.00073 dB

Peak SAR (extrapolated) = 1.4730

**SAR(1 g) = 0.917 mW/g; SAR(10 g) = 0.578 mW/g**

Maximum value of SAR (measured) = 0.977 mW/g

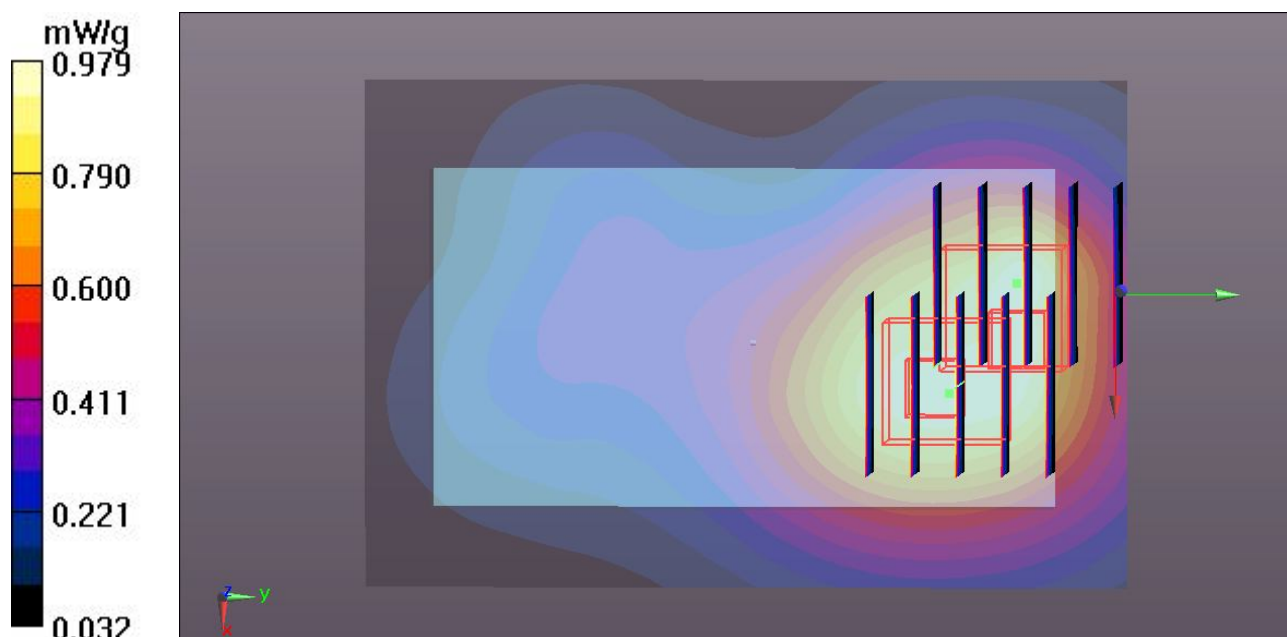
**Ch810/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.791 V/m; Power Drift = 0.00073 dB

Peak SAR (extrapolated) = 1.4740

**SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.540 mW/g**

Maximum value of SAR (measured) = 0.971 mW/g



**11 GSM1900\_GPRS12\_Bottom\_1.5cm\_Ch512****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: MSL\_1900\_120229 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch512/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.253 mW/g

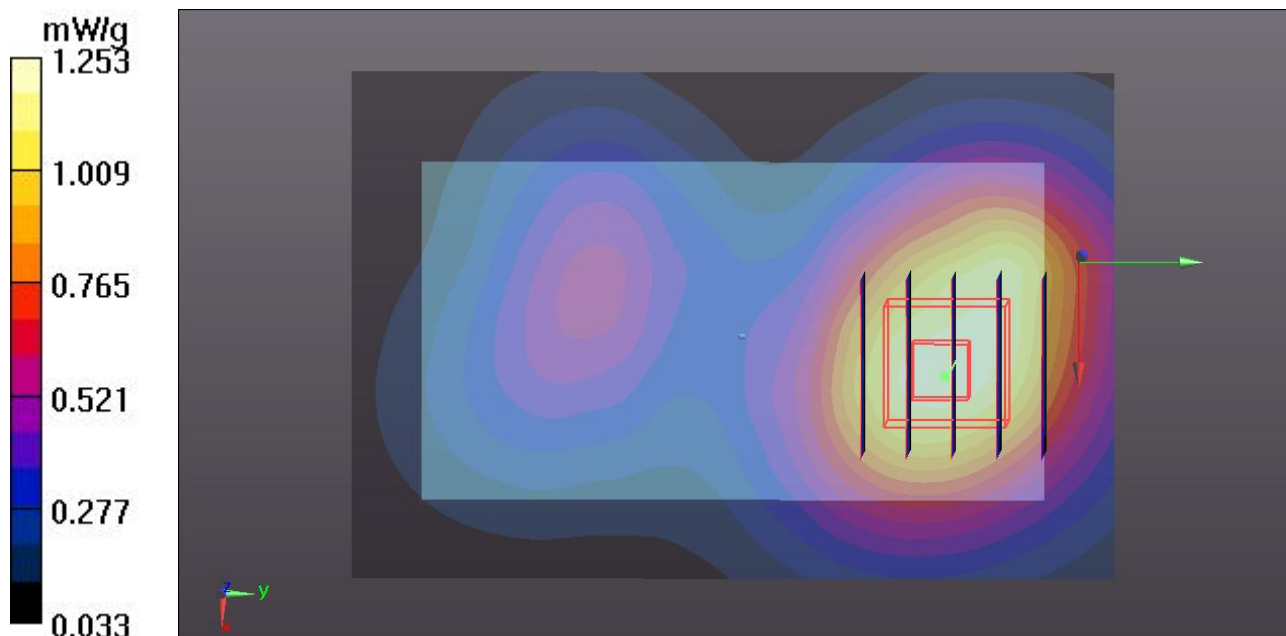
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.990 V/m; Power Drift = -0.0013 dB

Peak SAR (extrapolated) = 1.8290

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.721 mW/g**

Maximum value of SAR (measured) = 1.240 mW/g



**11 GSM1900\_GPRS12\_Bottom\_1.5cm\_Ch512\_2D****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: MSL\_1900\_120229 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch512/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.253 mW/g

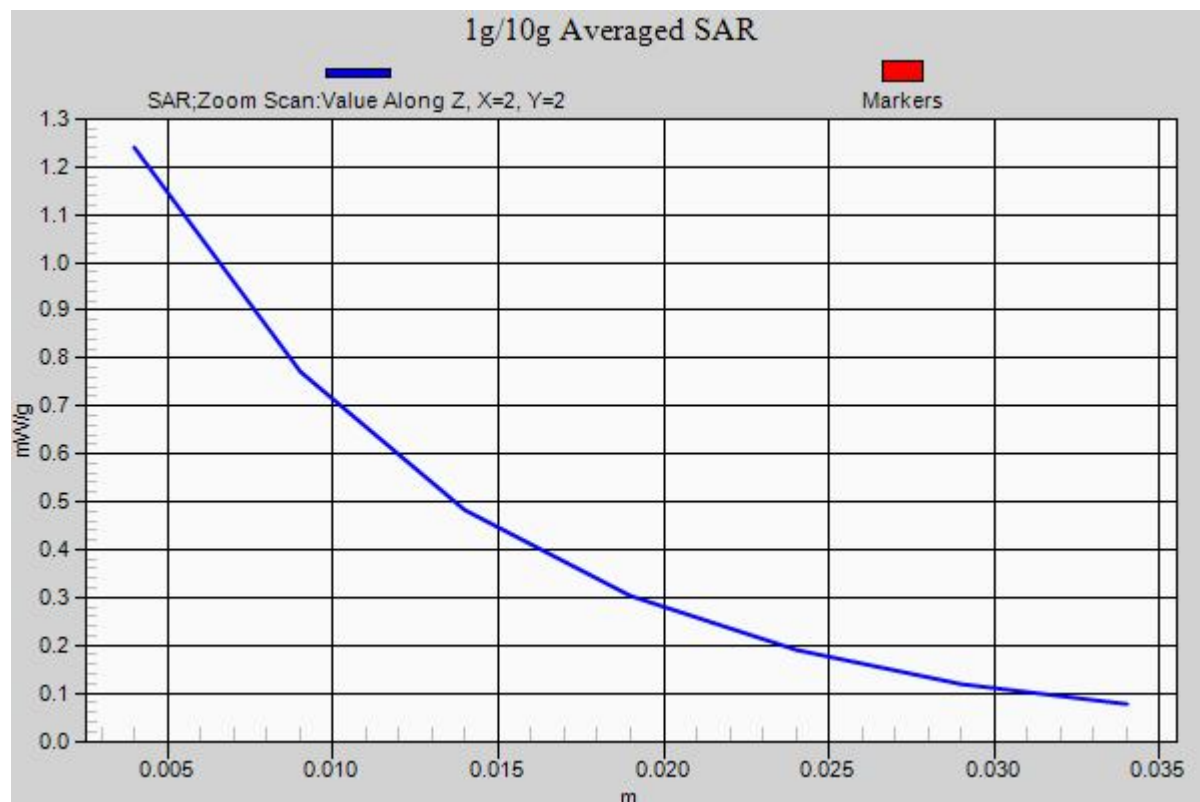
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.990 V/m; Power Drift = -0.0013 dB

Peak SAR (extrapolated) = 1.8290

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.721 mW/g**

Maximum value of SAR (measured) = 1.240 mW/g





**12 GSM1900\_GPRS12\_Bottom\_1.5cm\_Ch661****DUT: 222801**

Communication System: GPRS/EDGE12; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: MSL\_1900\_120229 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.479$  mho/m;  $\epsilon_r =$

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 21.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3819; ConvF(7.71, 7.71, 7.71); Calibrated: 16.11.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 10.11.2011
- Phantom: SAM3; Type: QDOVA002AA; Serial: TP:1149
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Ch661/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.169 mW/g

**Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.043 V/m; Power Drift = 0.0091 dB

Peak SAR (extrapolated) = 1.7270

**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.681 mW/g**

Maximum value of SAR (measured) = 1.162 mW/g

