



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

The plots for SAR measurement are shown as follows.

### P01 GSM850\_Right Cheek\_Ch251

#### DUT: 120321C23

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: H835\_0401 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.939$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.654 mW/g

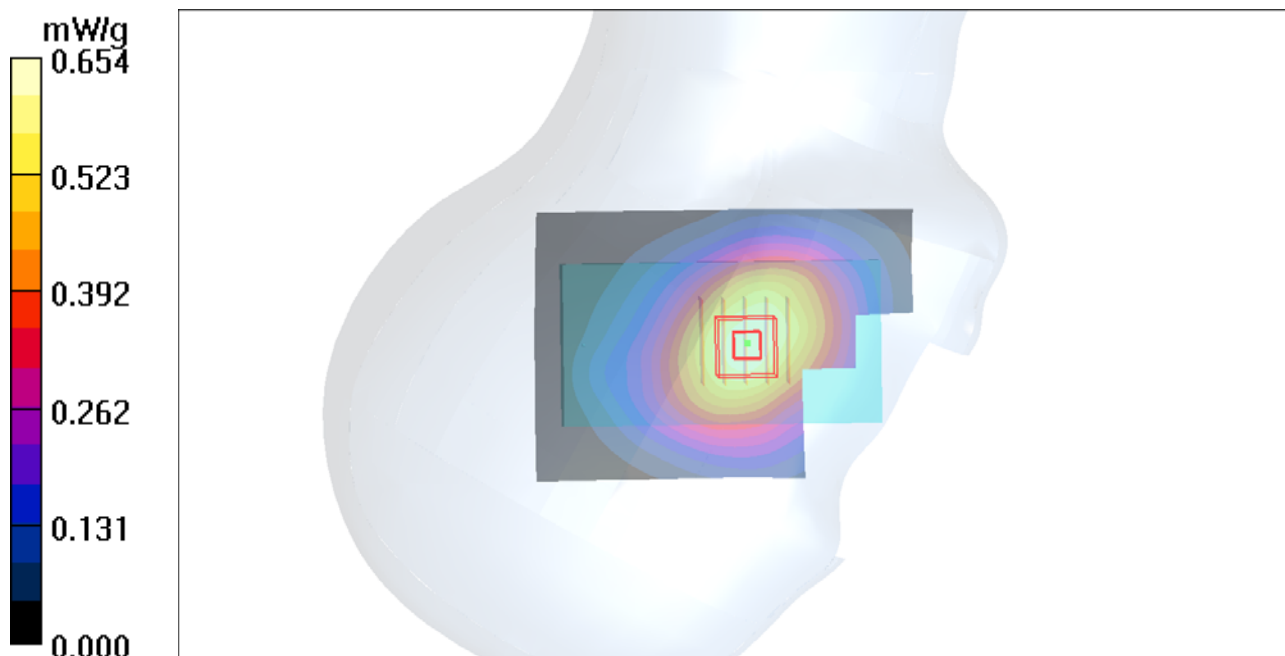
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.55 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.700 W/kg

**SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.432 mW/g**

Maximum value of SAR (measured) = 0.650 mW/g



## P02 GSM850\_Right Tilted\_Ch251

### DUT: 120321C23

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: H835\_0401 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.939$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.409 mW/g

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

Reference Value = 13.9 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.439 W/kg

**SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.399 mW/g

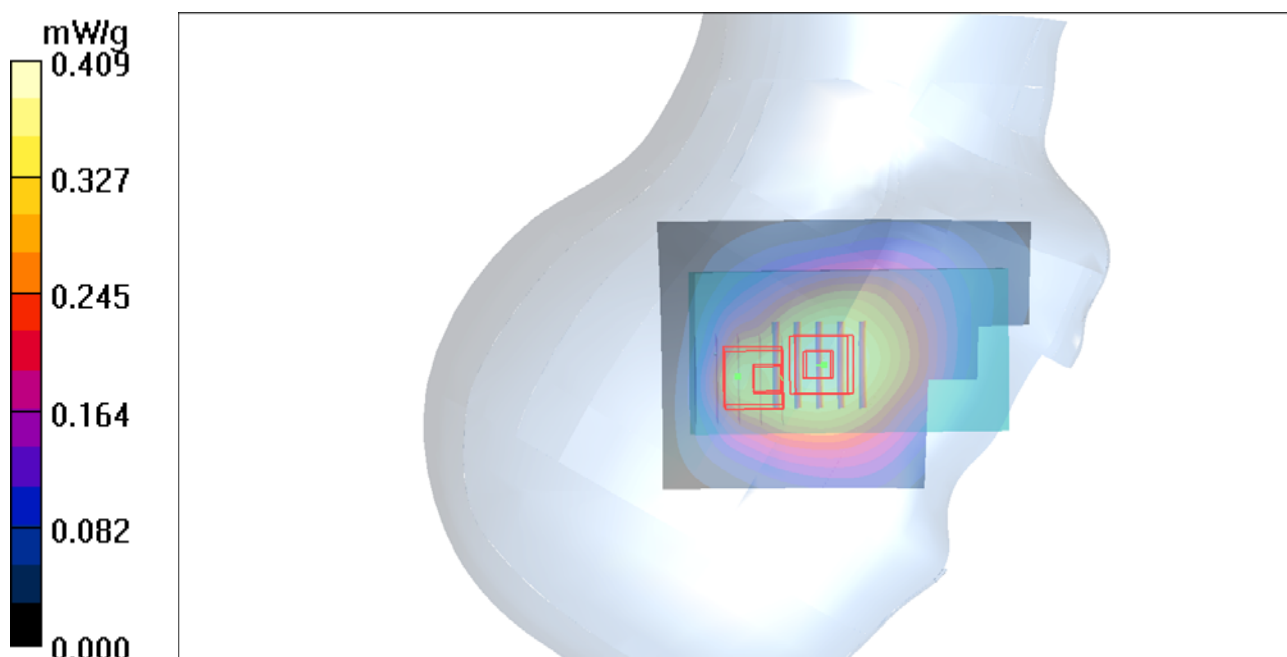
**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.383 W/kg

**SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.180 mW/g**

Maximum value of SAR (measured) = 0.351 mW/g



### P03 GSM850\_Left Cheek\_Ch251

#### DUT: 120321C23

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: H835\_0401 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.939$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.797 mW/g

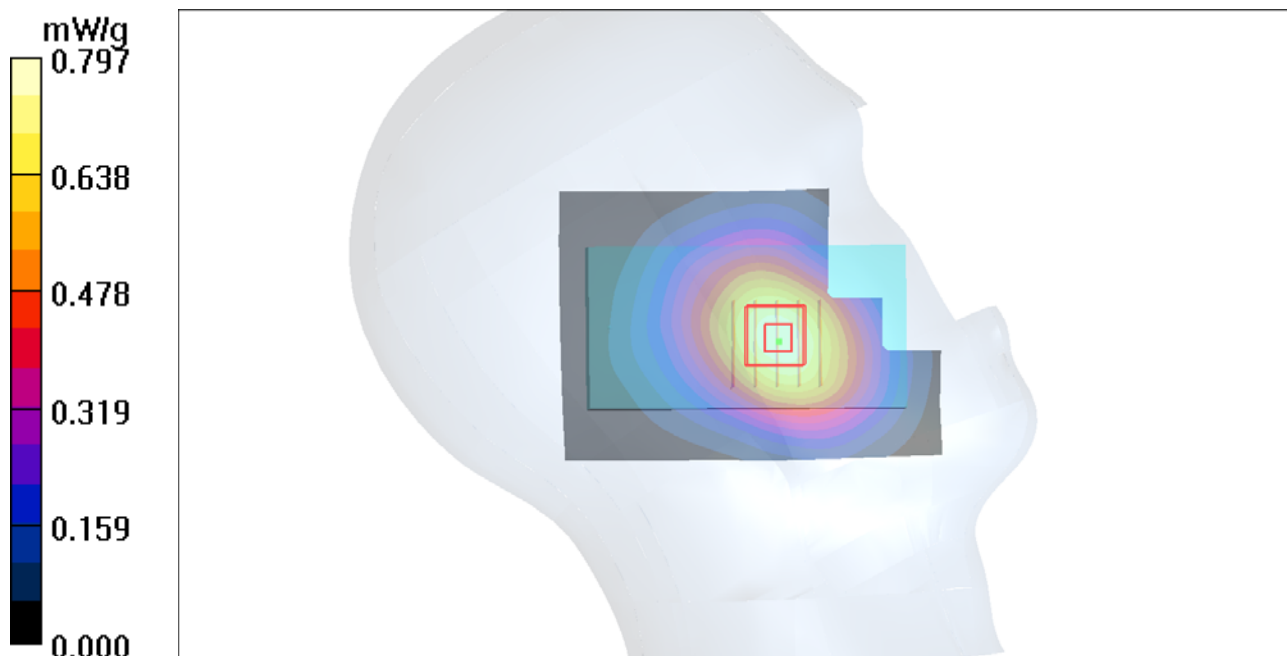
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.81 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 0.835 W/kg

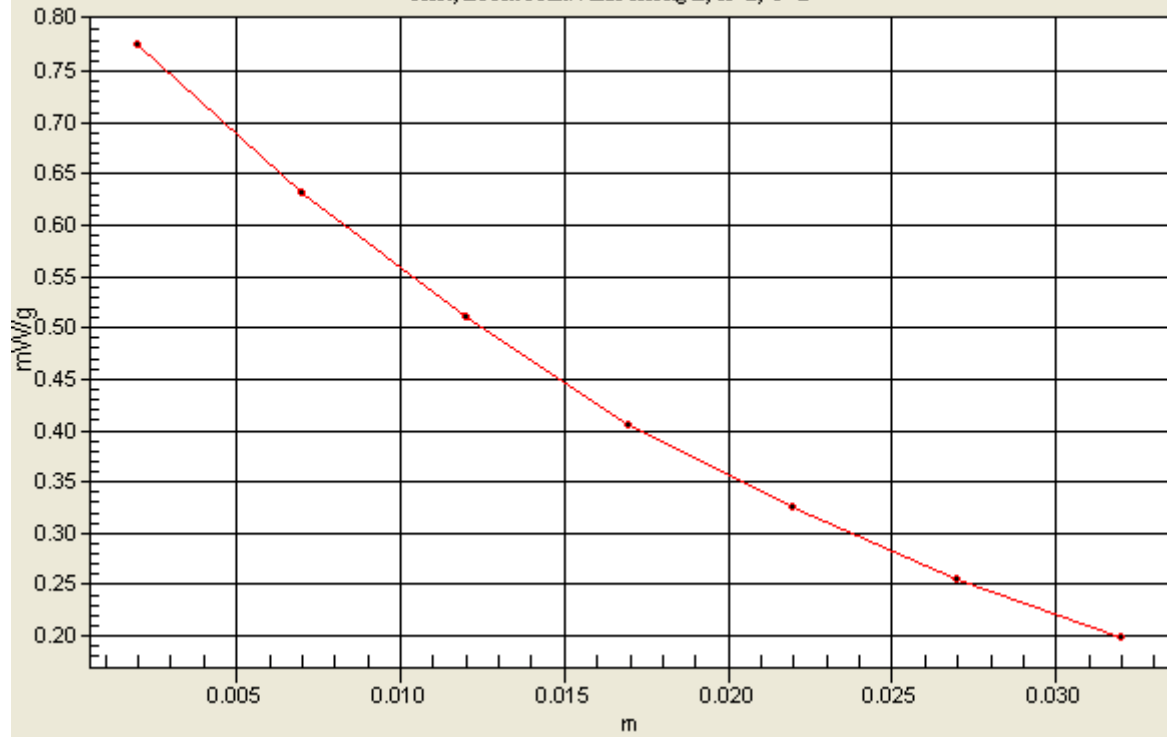
**SAR(1 g) = 0.675 mW/g; SAR(10 g) = 0.511 mW/g**

Maximum value of SAR (measured) = 0.772 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



## P04 GSM850\_Left Tilted\_Ch251

### DUT: 120321C23

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: H835\_0401 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.939$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.413 mW/g

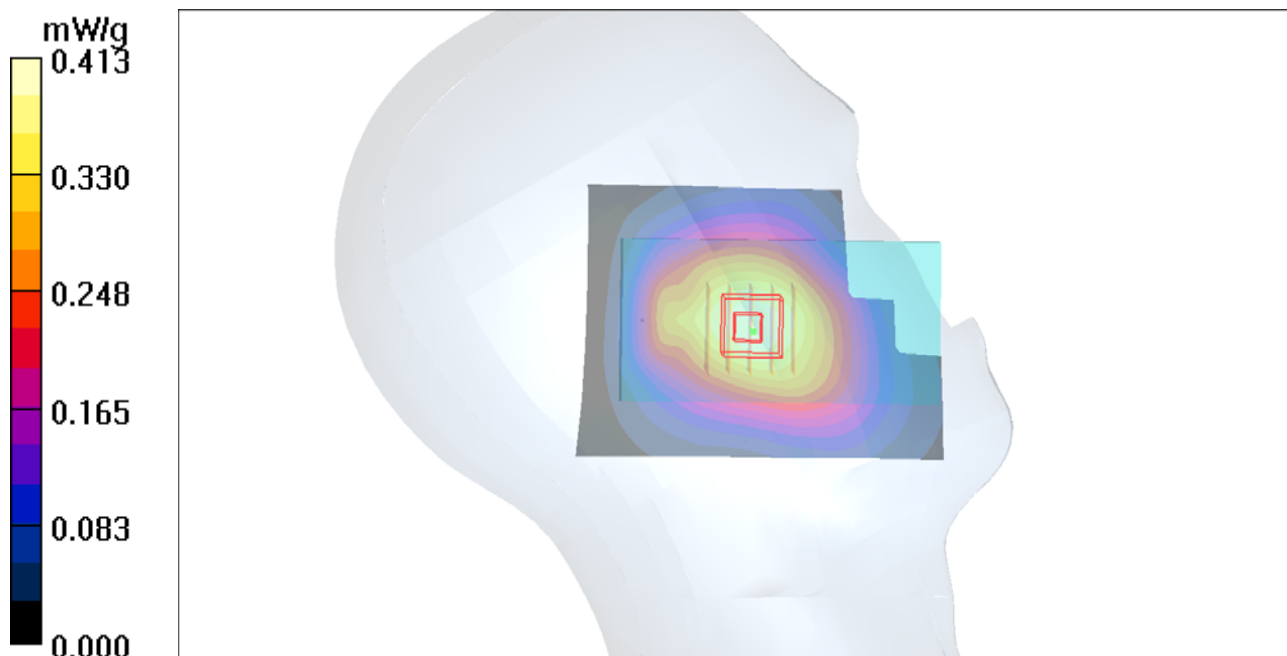
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 0.433 W/kg

**SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.269 mW/g**

Maximum value of SAR (measured) = 0.396 mW/g



## P70 GSM850\_Left Cheek\_Ch251\_Battery2

### DUT: 120321C23

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: H835\_0417 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 20.9 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.755 mW/g

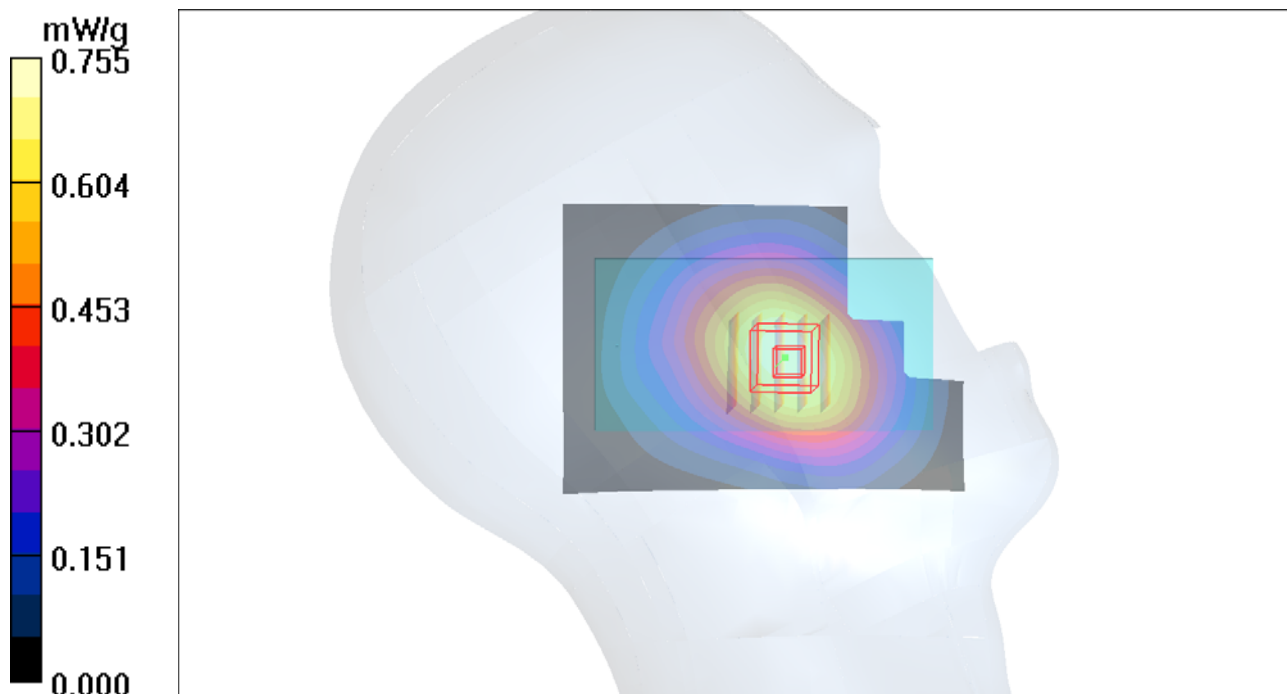
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.9 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.795 W/kg

**SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.496 mW/g**

Maximum value of SAR (measured) = 0.729 mW/g



## P26 GSM1900\_Right Cheek\_Ch810

**DUT: 120321C23**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: H1900\_0403 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.7 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.83, 8.83, 8.83); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch810/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.595 mW/g

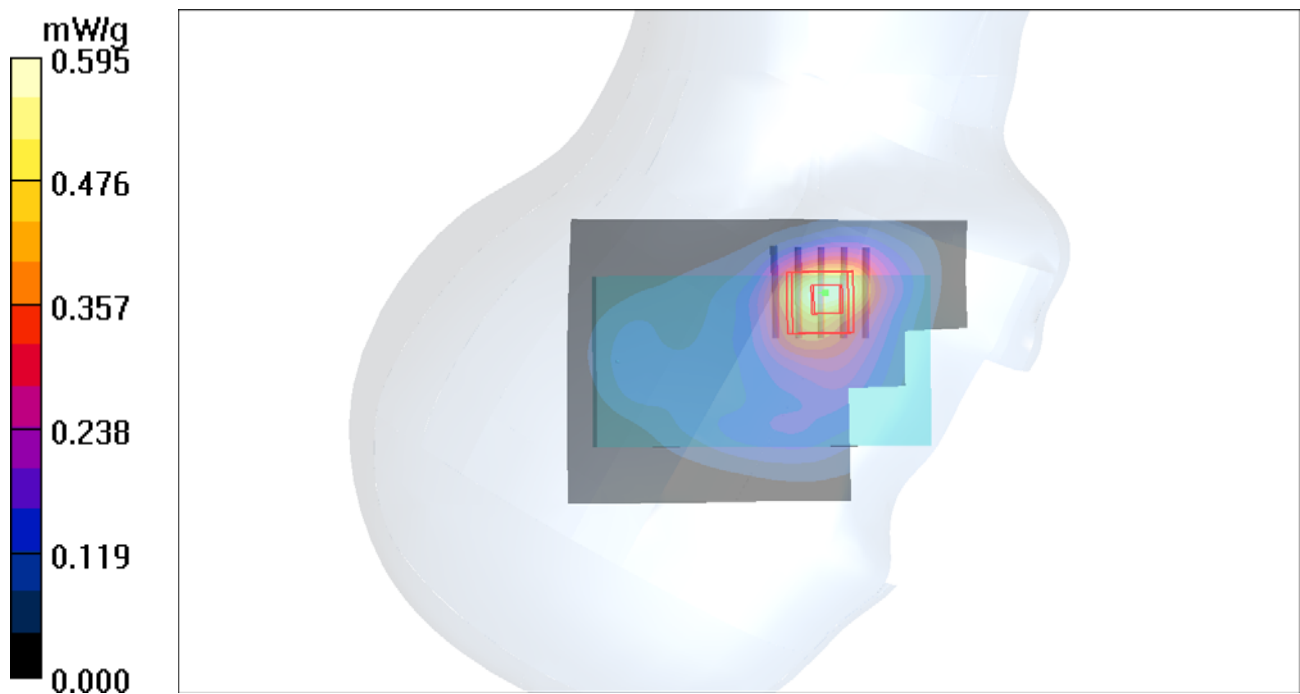
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.97 V/m; Power Drift = -0.162 dB

Peak SAR (extrapolated) = 0.754 W/kg

**SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.253 mW/g**

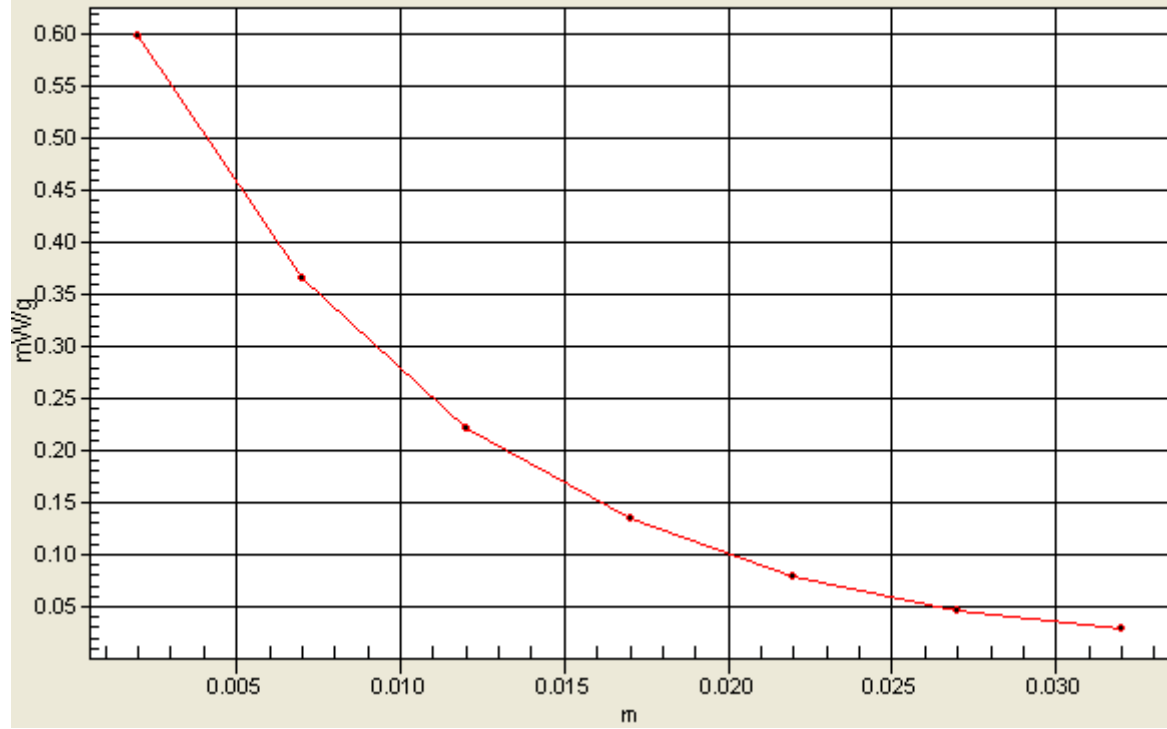
Maximum value of SAR (measured) = 0.598 mW/g





# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



## P27 GSM1900\_Right Tilted\_Ch810

**DUT: 120321C23**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: H1900\_0403 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.7 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.83, 8.83, 8.83); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch810/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.252 mW/g

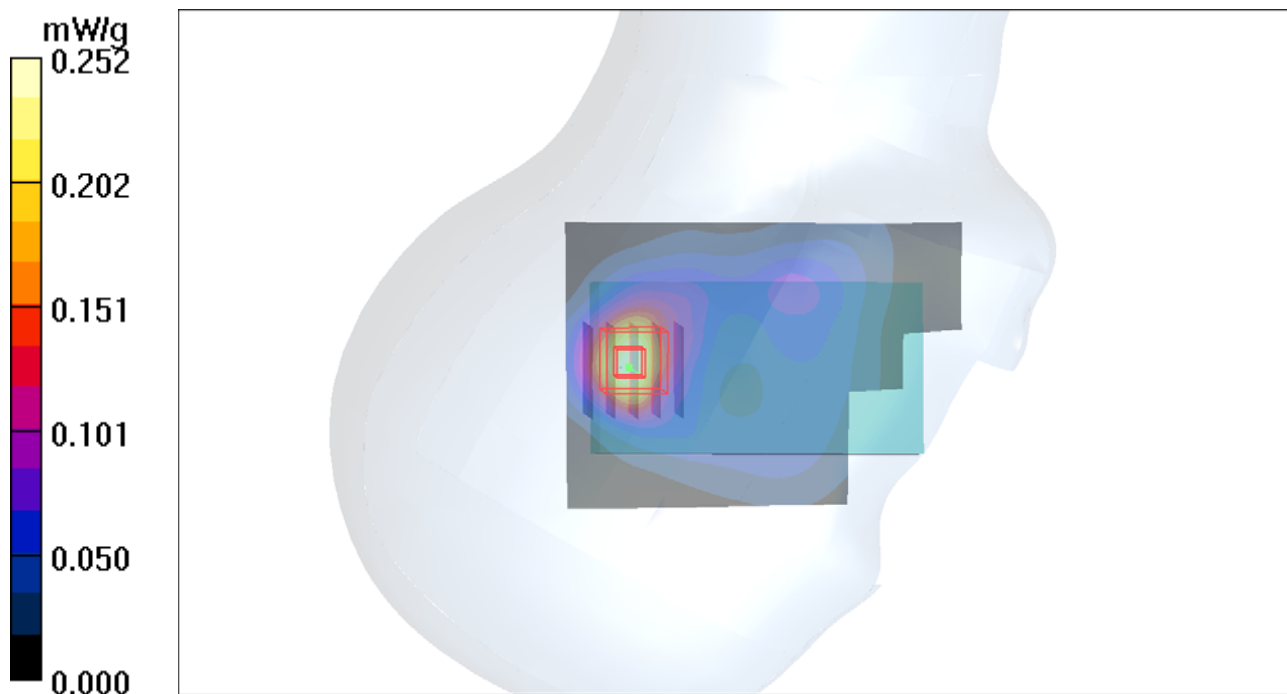
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 0.286 W/kg

**SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.100 mW/g**

Maximum value of SAR (measured) = 0.233 mW/g



## P28 GSM1900\_Left Cheek\_Ch810

**DUT: 120321C23**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: H1900\_0403 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.7 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.83, 8.83, 8.83); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch810/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.323 mW/g

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

Reference Value = 8.21 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.392 W/kg

**SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.150 mW/g**

Maximum value of SAR (measured) = 0.316 mW/g

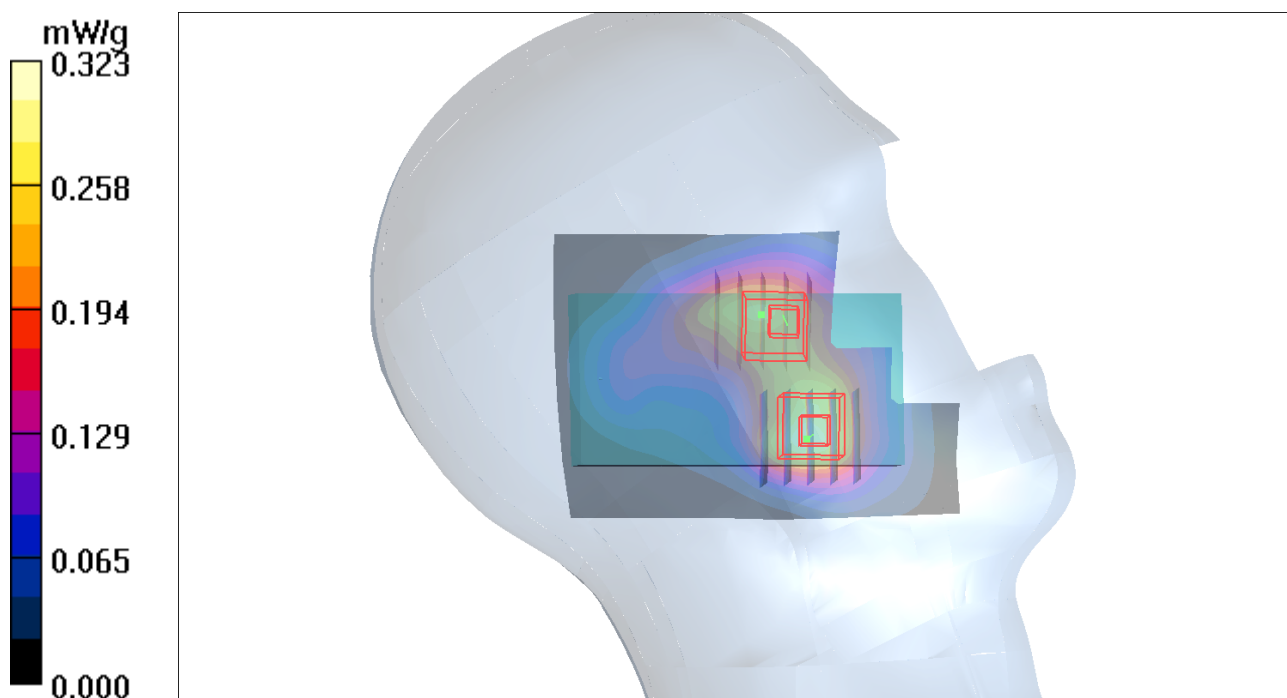
**Ch810/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.21 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.346 W/kg

**SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.138 mW/g**

Maximum value of SAR (measured) = 0.289 mW/g



## P29 GSM1900\_Left Tilted\_Ch810

### DUT: 120321C23

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: H1900\_0403 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.7 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(8.83, 8.83, 8.83); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch810/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.234 mW/g

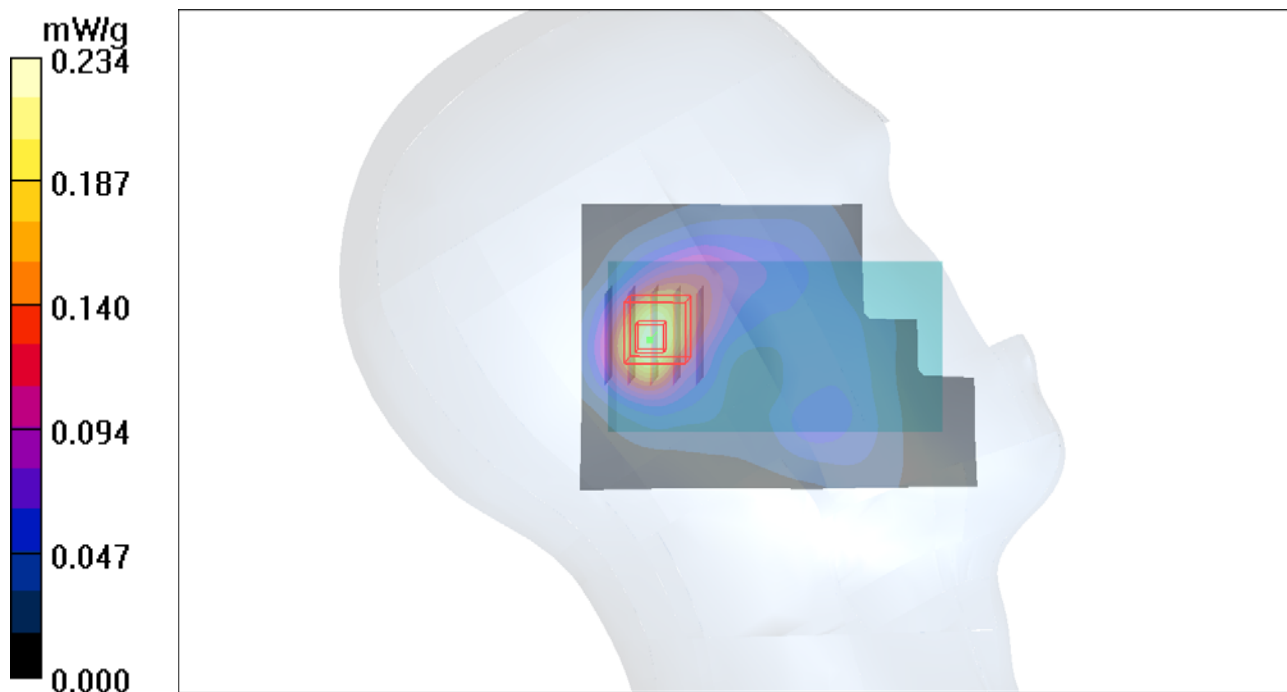
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 0.280 W/kg

**SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.094 mW/g**

Maximum value of SAR (measured) = 0.233 mW/g



## P71 GSM1900\_Right Cheek\_Ch810\_Battery2

### DUT: 120321C23

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: H1900\_0417 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.8 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.4, 7.4, 7.4); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch810/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.469 mW/g

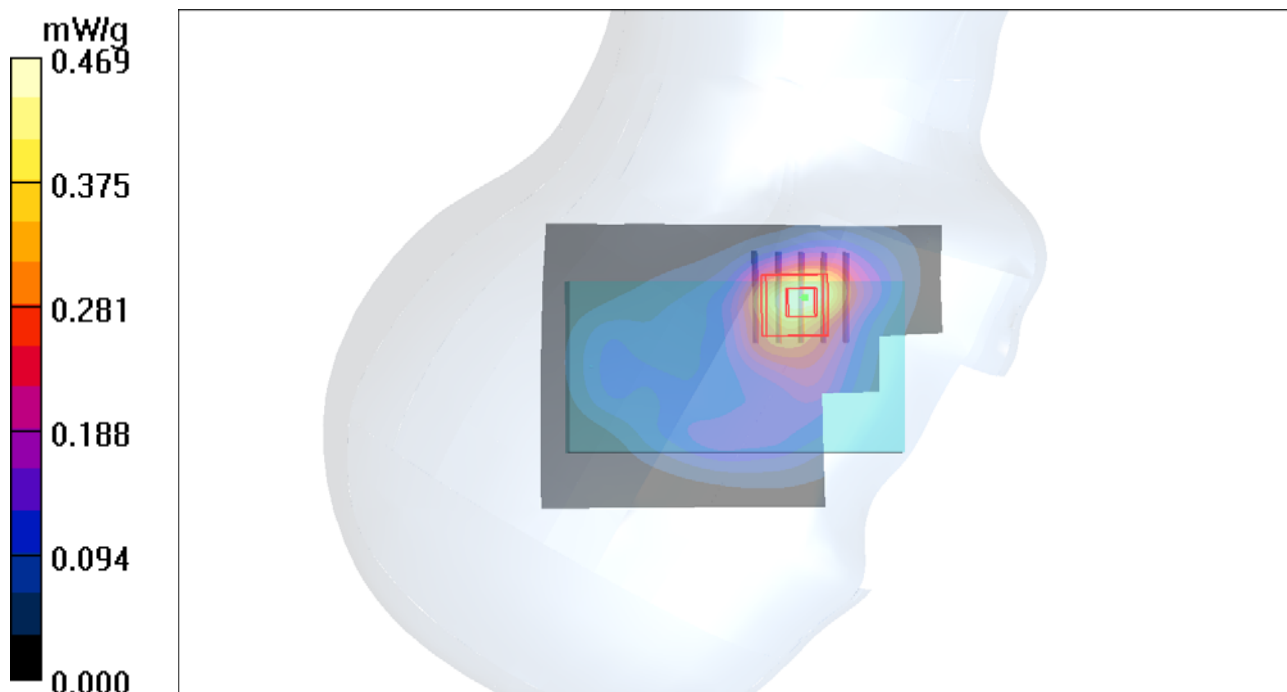
**Ch810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.77 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.620 W/kg

**SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.224 mW/g**

Maximum value of SAR (measured) = 0.511 mW/g



### P05 WCDMA V\_RMC12.2K\_Right Cheek\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H835\_0401 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.936$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.794 mW/g

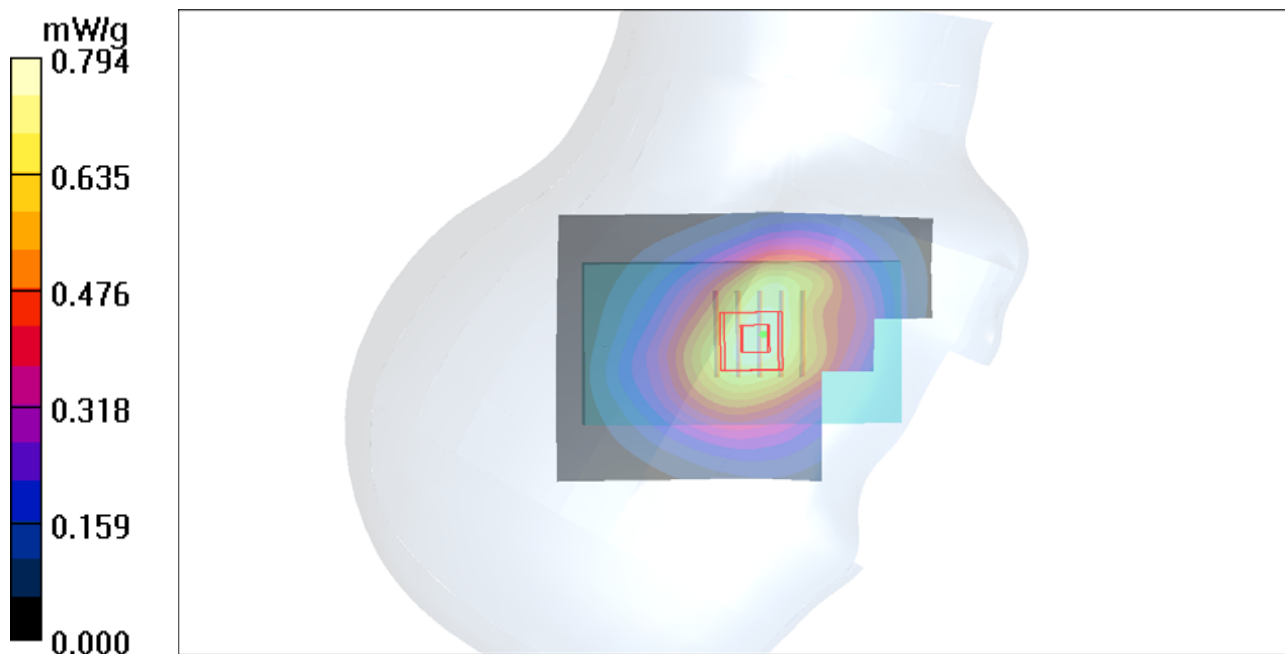
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.862 W/kg

**SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.514 mW/g**

Maximum value of SAR (measured) = 0.789 mW/g



### P06 WCDMA V\_RMC12.2K\_Right Tilted\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H835\_0401 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.936$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.519 mW/g

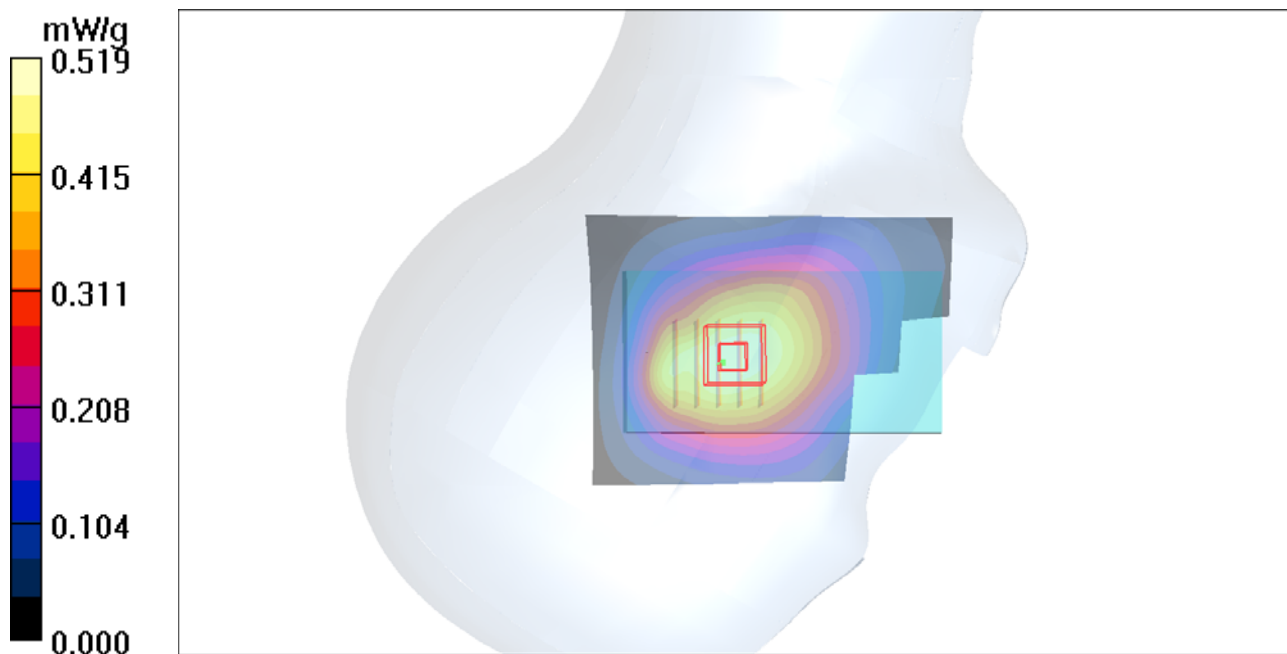
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.9 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 0.576 W/kg

**SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.337 mW/g**

Maximum value of SAR (measured) = 0.521 mW/g



### P07 WCDMA V\_RMC12.2K\_Left Cheek\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H835\_0401 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.936$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.958 mW/g

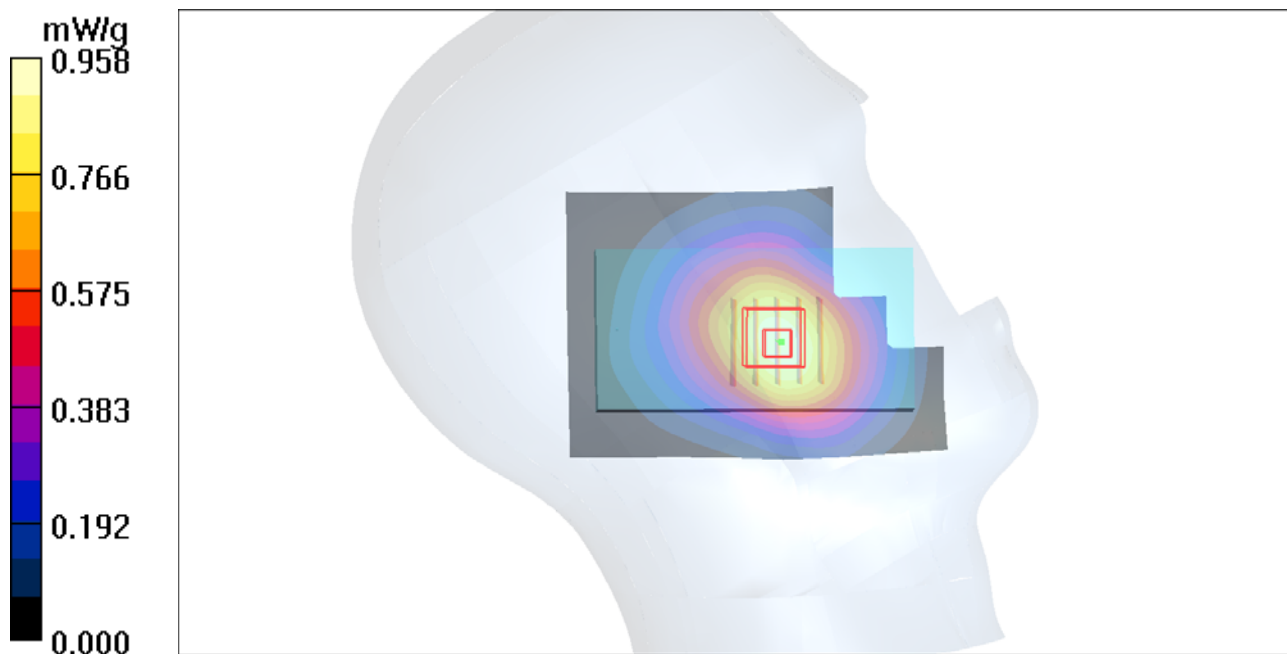
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.184 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.835 mW/g; SAR(10 g) = 0.617 mW/g**

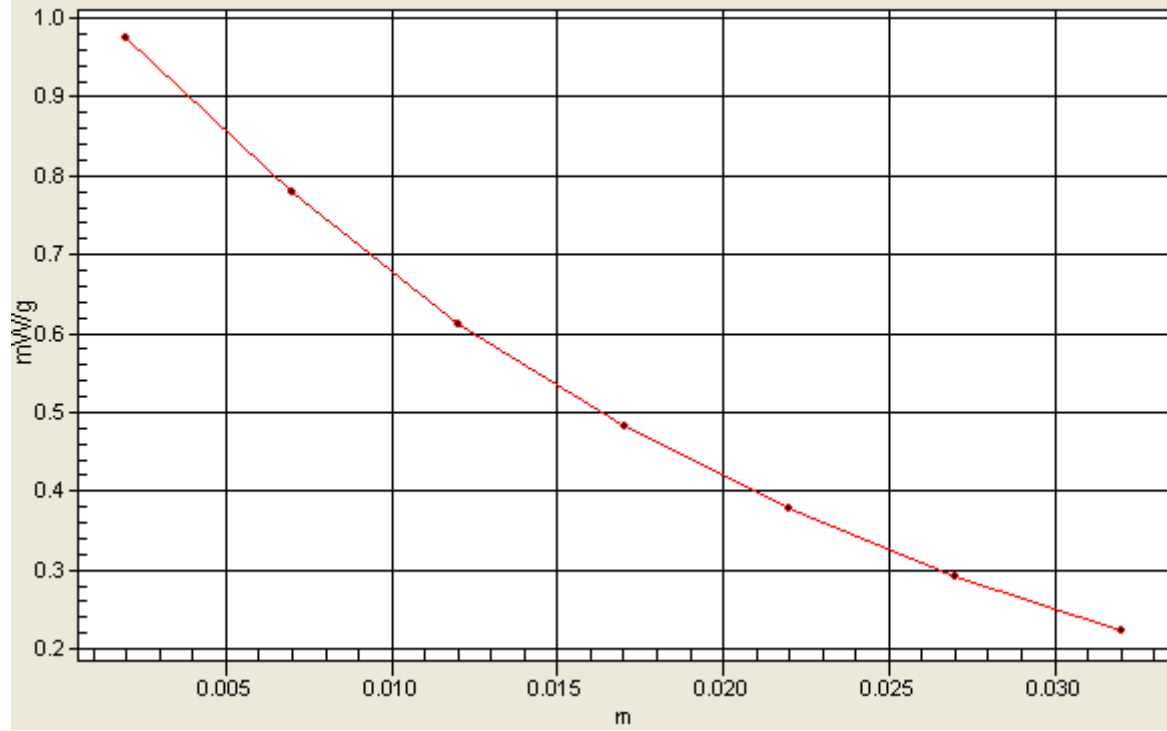
Maximum value of SAR (measured) = 0.974 mW/g





# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



### P08 WCDMA V\_RMC12.2K\_Left Tilted\_Ch4233

#### DUT: 120321C23

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H835\_0401 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.936$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.499 mW/g

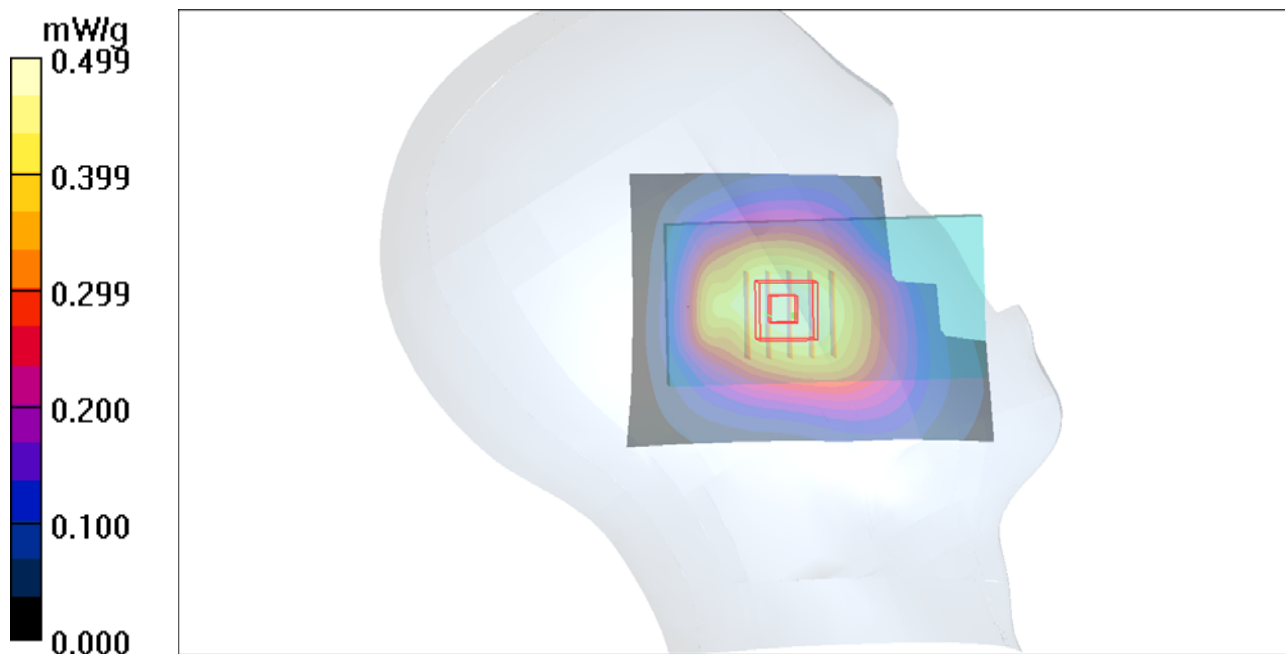
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.0 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.554 W/kg

**SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.334 mW/g**

Maximum value of SAR (measured) = 0.500 mW/g



**P09 WCDMA V\_RMC12.2K\_Left Cheek\_Ch4132**

**DUT: 120321C23**

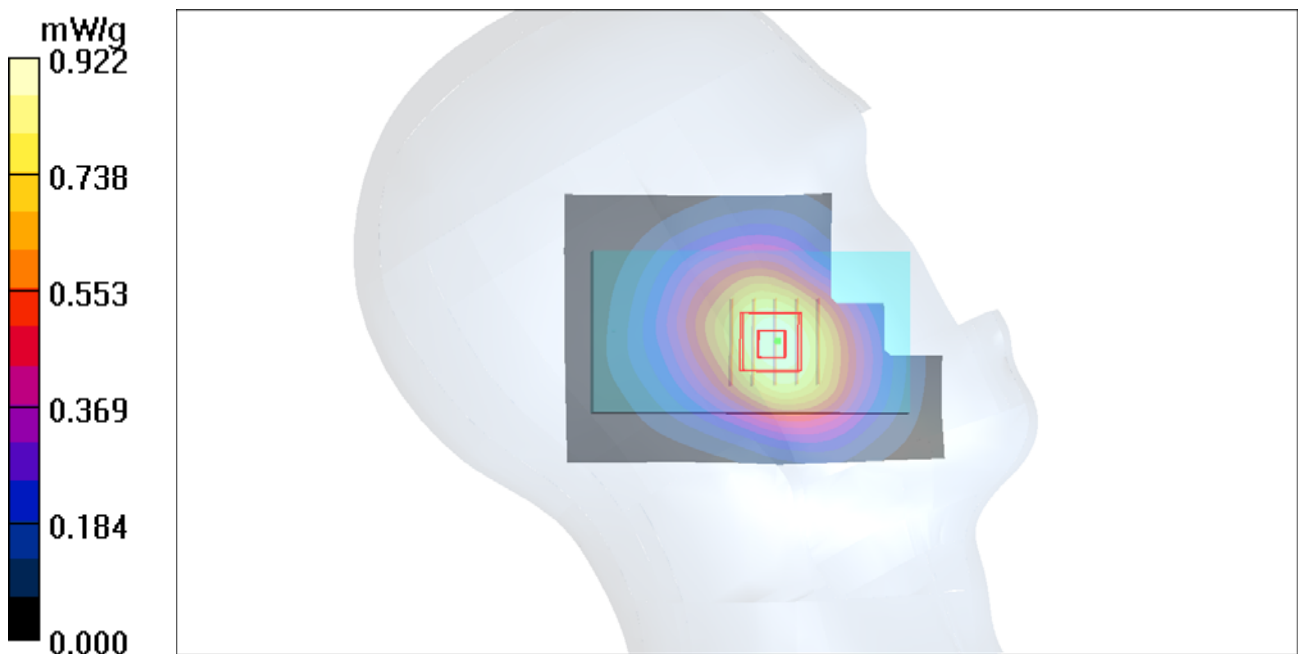
Communication System: WCDMA V; Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: H835\_0401 Medium parameters used:  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.912 \text{ mho/m}$ ;  $\epsilon_r = 43.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Ambient Temperature : 22.1 °C; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4132/Area Scan (51x71x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$   
 Maximum value of SAR (interpolated) = 0.922 mW/g

**Ch4132/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.3 V/m; Power Drift = -0.032 dB  
 Peak SAR (extrapolated) = 0.987 W/kg  
**SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.595 mW/g**  
 Maximum value of SAR (measured) = 0.903 mW/g



## P10 WCDMA V\_RMC12.2K\_Left Cheek\_Ch4182

### DUT: 120321C23

Communication System: WCDMA V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: H835\_0401 Medium parameters used :  $f = 836.4$  MHz;  $\sigma = 0.924$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.14, 10.14, 10.14); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4182/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.821 mW/g

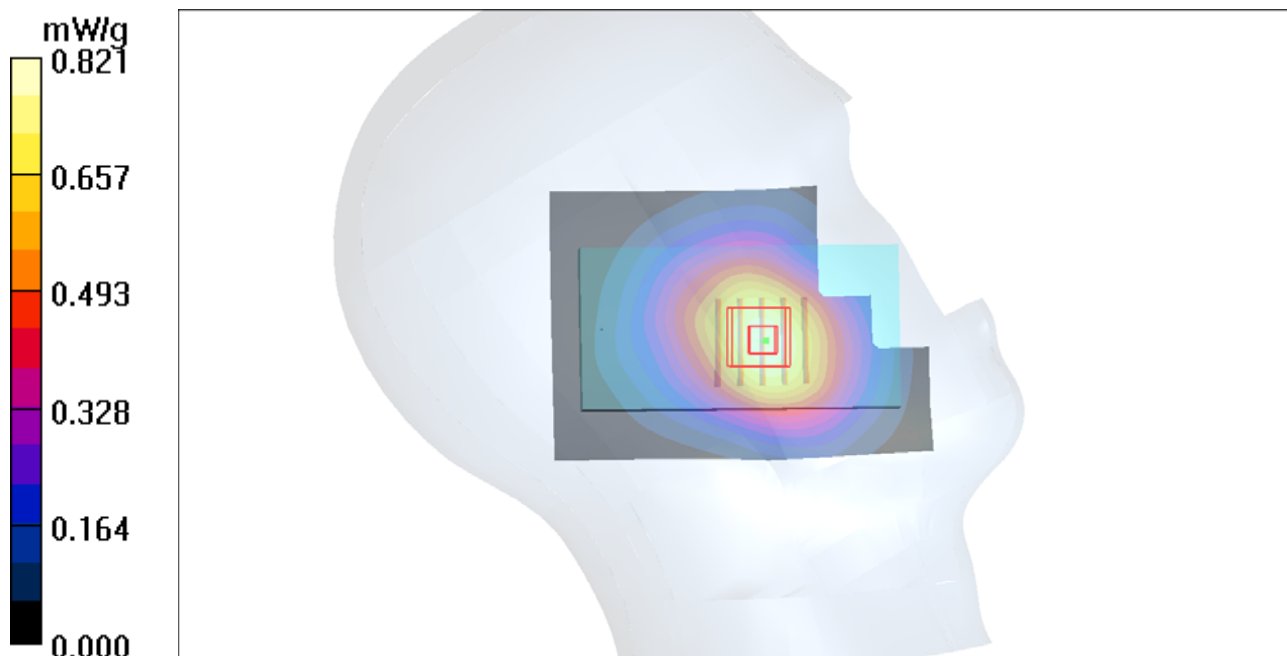
**Ch4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.32 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.890 W/kg

**SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.521 mW/g**

Maximum value of SAR (measured) = 0.809 mW/g



## P72 WCDMA V\_RMC12.2K\_Left Cheek\_Ch4233\_Battery2

### DUT: 120321C23

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: H835\_0417 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.8 °C; Liquid Temperature : 20.9 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.855 mW/g

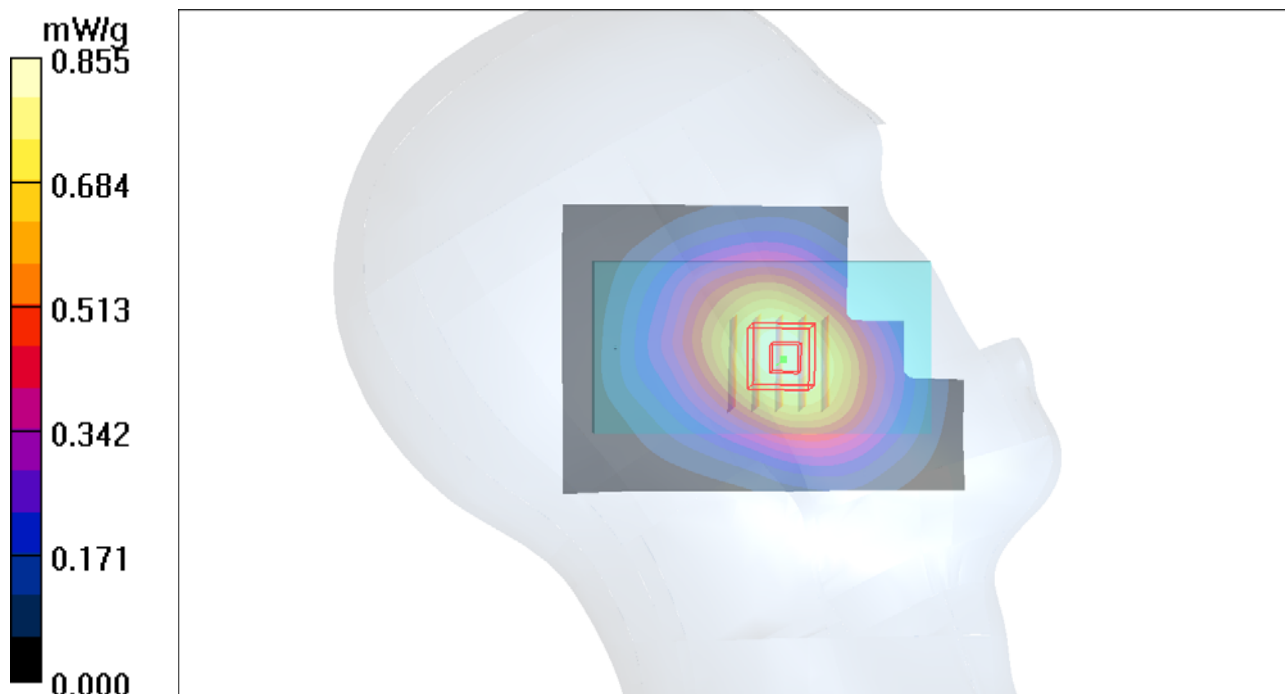
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.891 W/kg

**SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.559 mW/g**

Maximum value of SAR (measured) = 0.829 mW/g



### P120 802.11b\_Right Cheek\_Ch11

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: H2450\_0409 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.86 \text{ mho/m}$ ;  $\epsilon_r = 38$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.0 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.71, 6.71, 6.71); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.25 mW/g

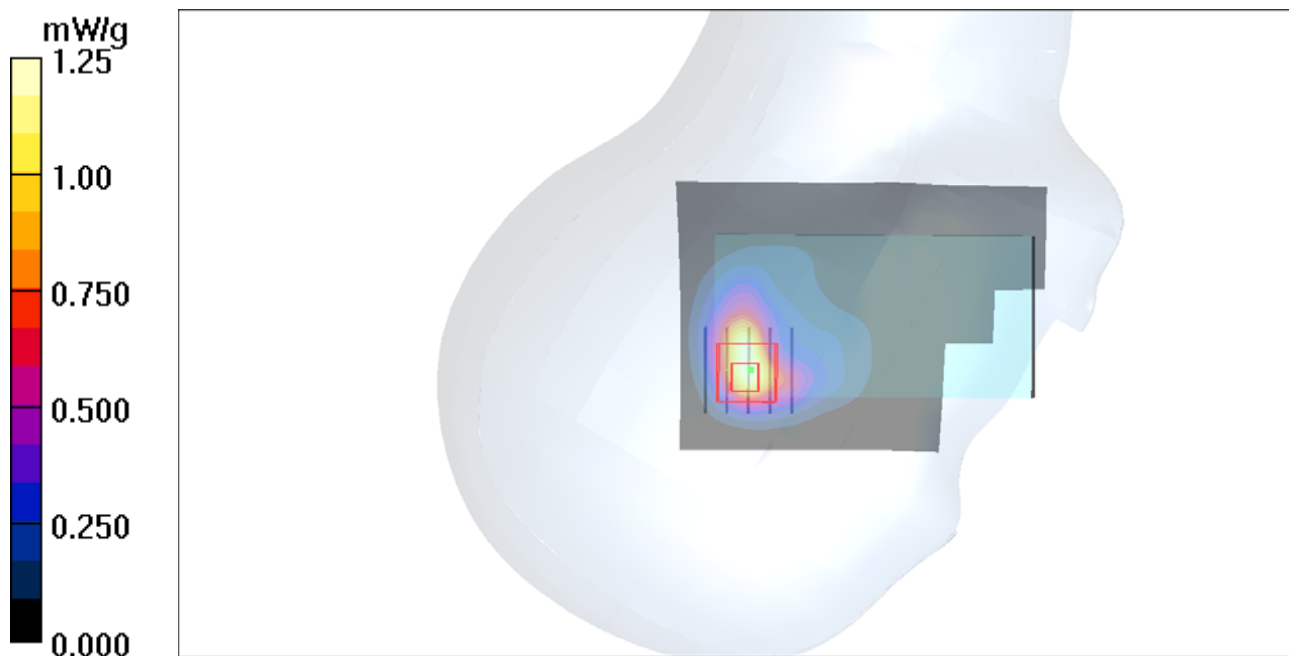
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.6 V/m; Power Drift = 0.175 dB

Peak SAR (extrapolated) = 1.80 W/kg

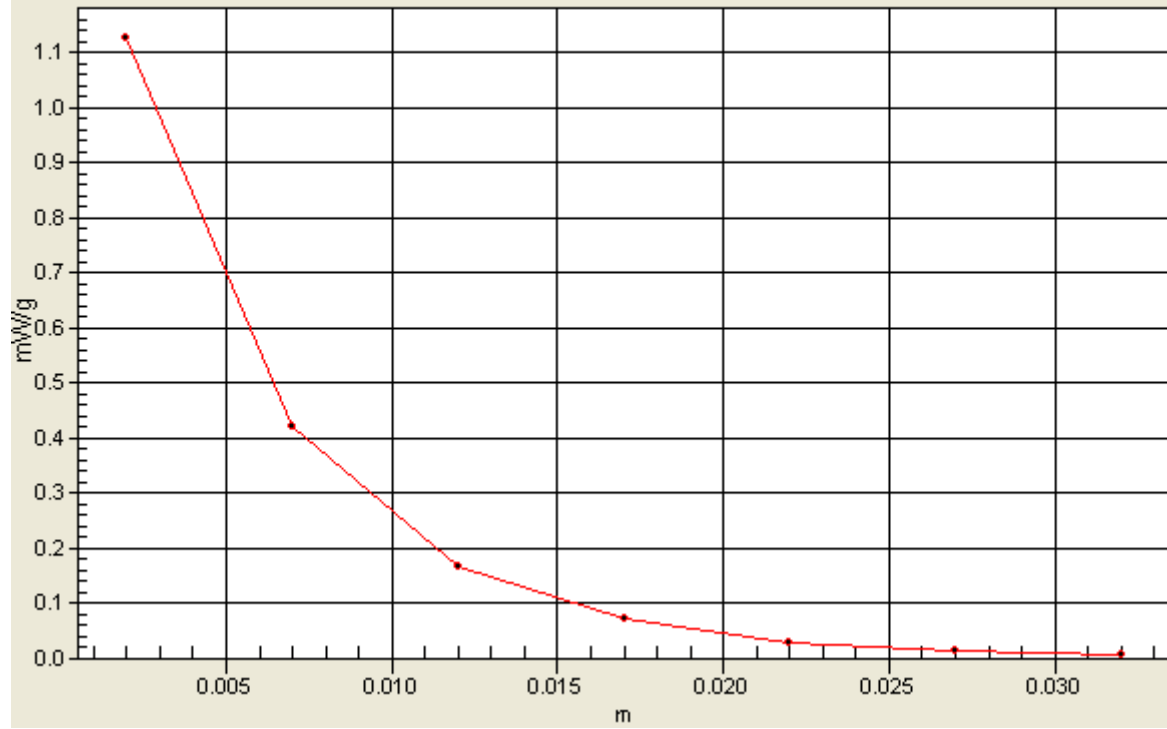
**SAR(1 g) = 0.704 mW/g; SAR(10 g) = 0.299 mW/g**

Maximum value of SAR (measured) = 1.13 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=1



## P121 802.11b\_Right Tilted\_Ch11

### DUT: 120321C23

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: H2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.0 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.71, 6.71, 6.71); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.827 mW/g

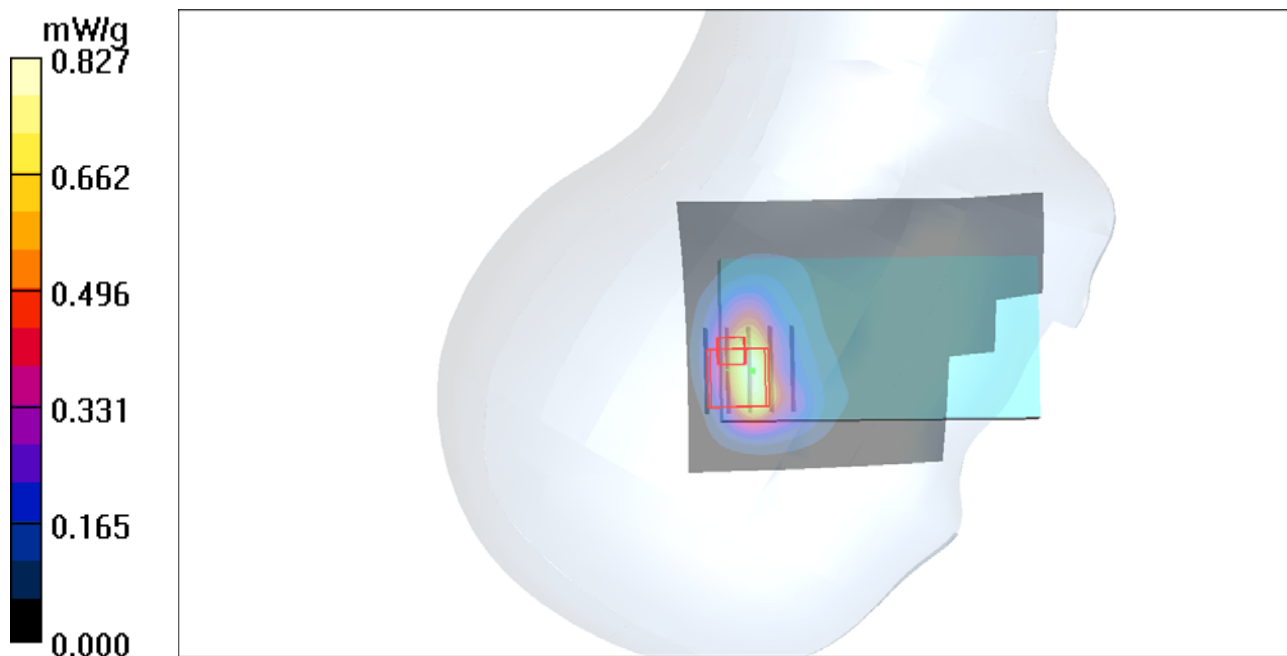
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.4 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.204 mW/g**

Maximum value of SAR (measured) = 0.759 mW/g





## P122 802.11b\_Left Cheek\_Ch11

### DUT: 120321C23

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: H2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.0 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.71, 6.71, 6.71); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.710 mW/g

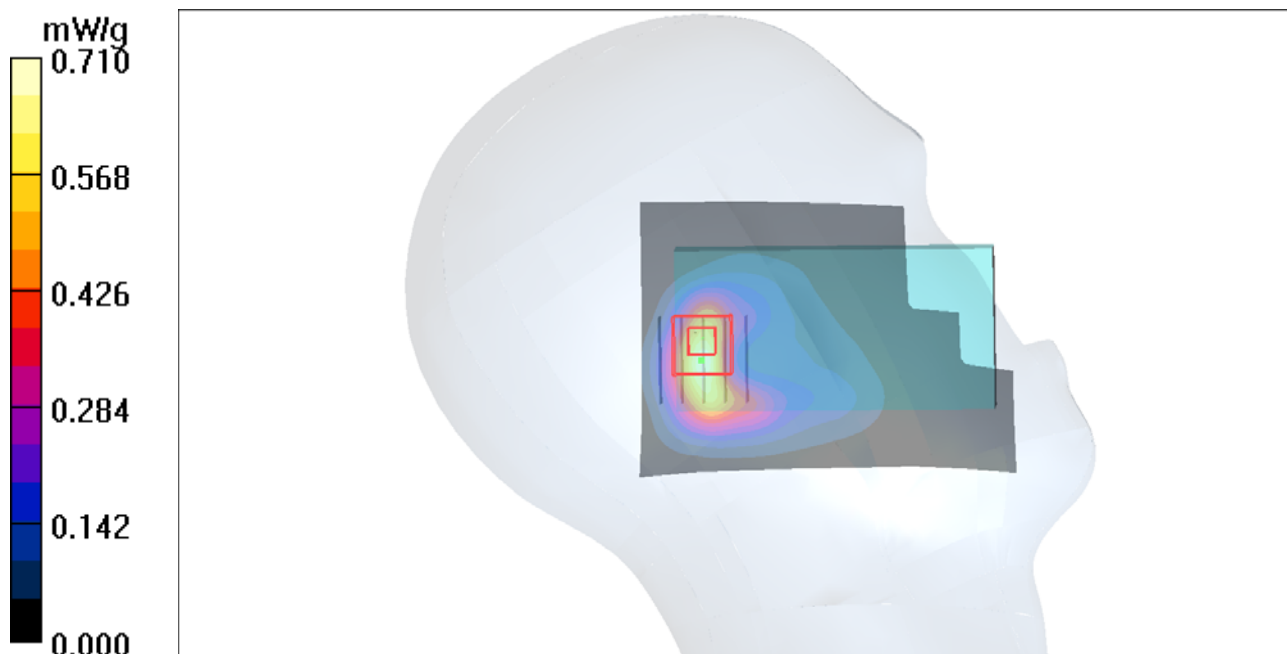
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.5 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.966 W/kg

**SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.197 mW/g**

Maximum value of SAR (measured) = 0.695 mW/g



### P123 802.11b\_Left Tilted\_Ch11

#### DUT: 120321C23

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: H2450\_0409 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.86 \text{ mho/m}$ ;  $\epsilon_r = 38$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.0 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.71, 6.71, 6.71); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.552 mW/g

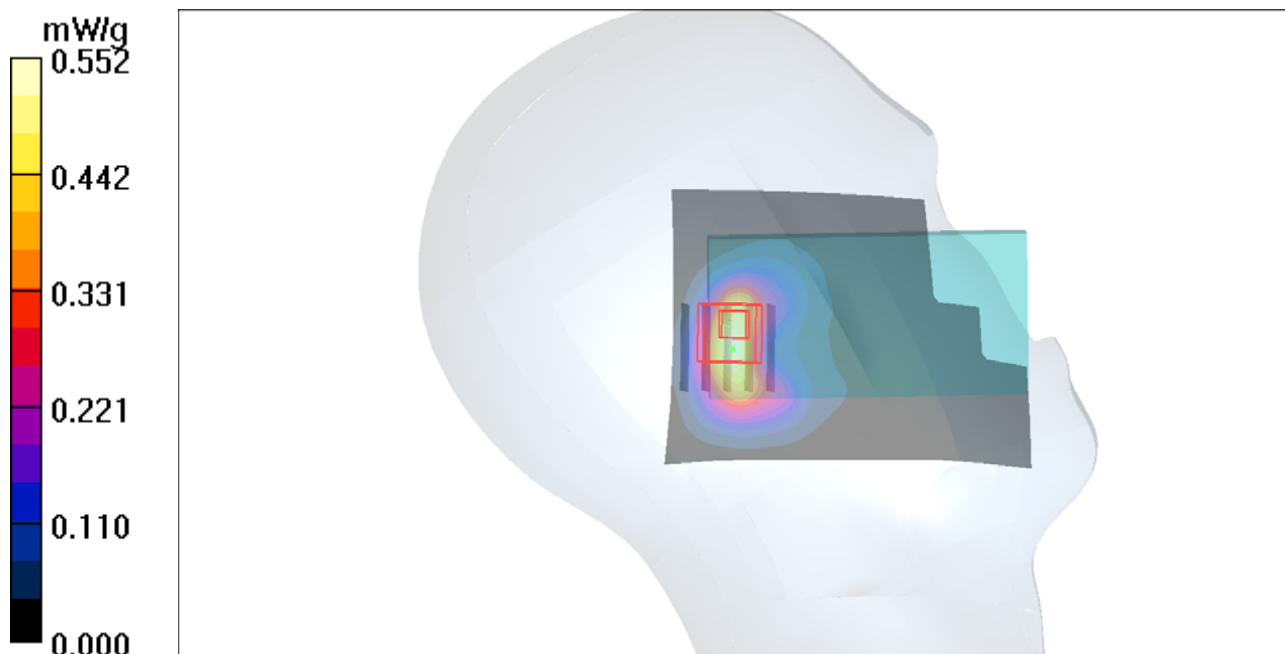
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.4 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.768 W/kg

**SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.157 mW/g**

Maximum value of SAR (measured) = 0.559 mW/g



## P132 802.11b\_Right Cheek\_Ch11\_Battery2

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: H2450\_0418 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.826$  mho/m;  $\epsilon_r = 37.345$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(7.88, 7.88, 7.88); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.61 mW/g

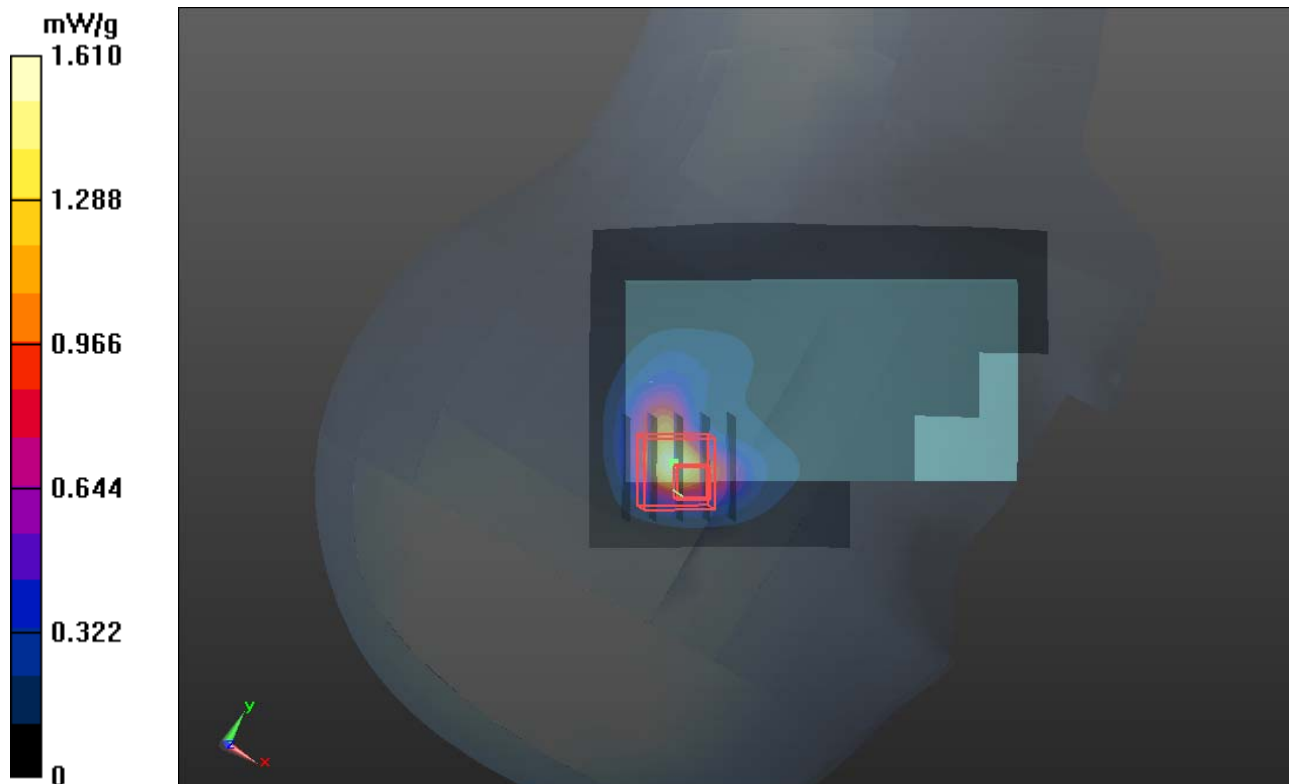
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.797 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 1.711 mW/g

**SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.296 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g



### P50 GSM850\_GPRS11\_Front Face\_1cm\_Ch251

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.893 mW/g

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

Reference Value = 29.6 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.937 W/kg

**SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.560 mW/g**

Maximum value of SAR (measured) = 0.842 mW/g

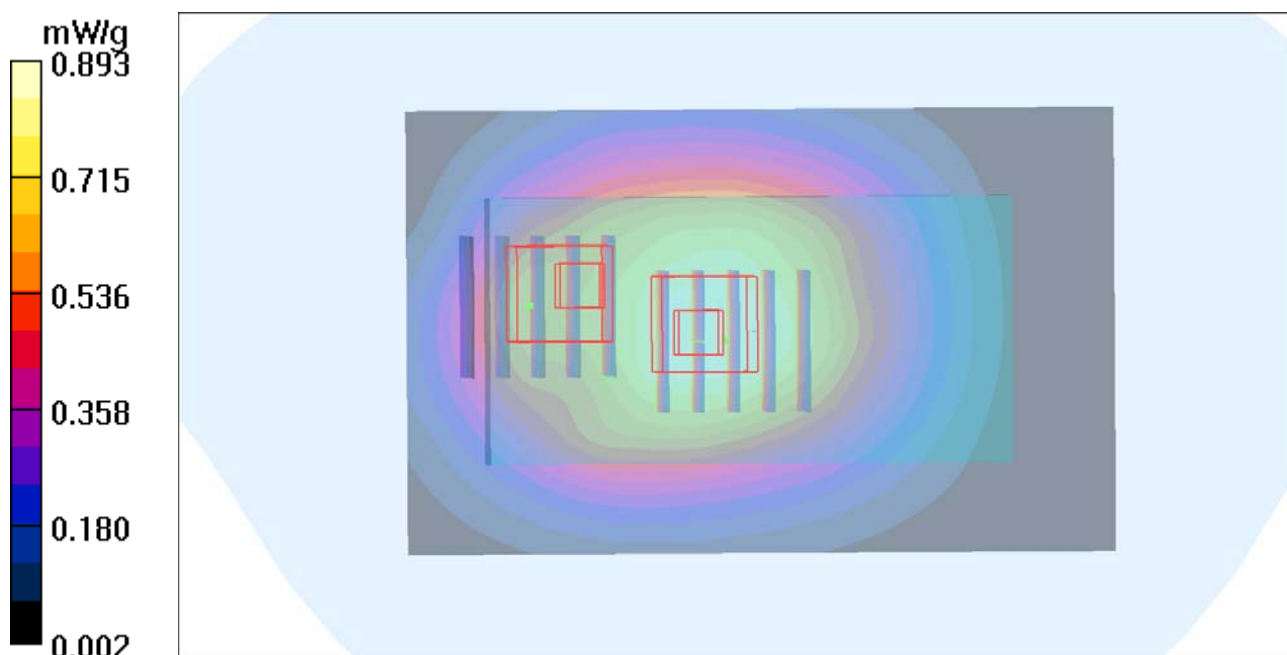
**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.6 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.765 W/kg

**SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.378 mW/g**

Maximum value of SAR (measured) = 0.664 mW/g



### P51 GSM850\_GPRS11\_Rear Face\_1cm\_Ch251

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.04 mW/g

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

Reference Value = 31.3 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.867 mW/g; SAR(10 g) = 0.639 mW/g**

Maximum value of SAR (measured) = 1.01 mW/g

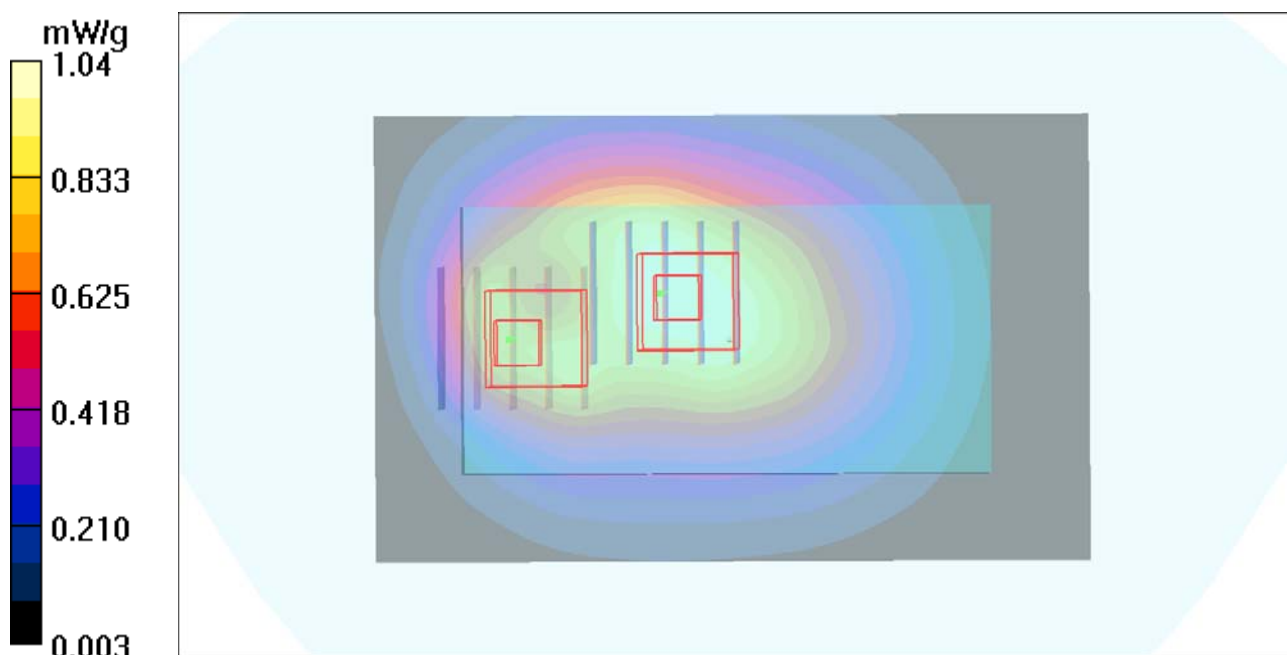
**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.3 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.771 mW/g; SAR(10 g) = 0.511 mW/g**

Maximum value of SAR (measured) = 0.998 mW/g



## P52 GSM850\_GPRS11\_Left Side\_1cm\_Ch251

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (31x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.951 mW/g

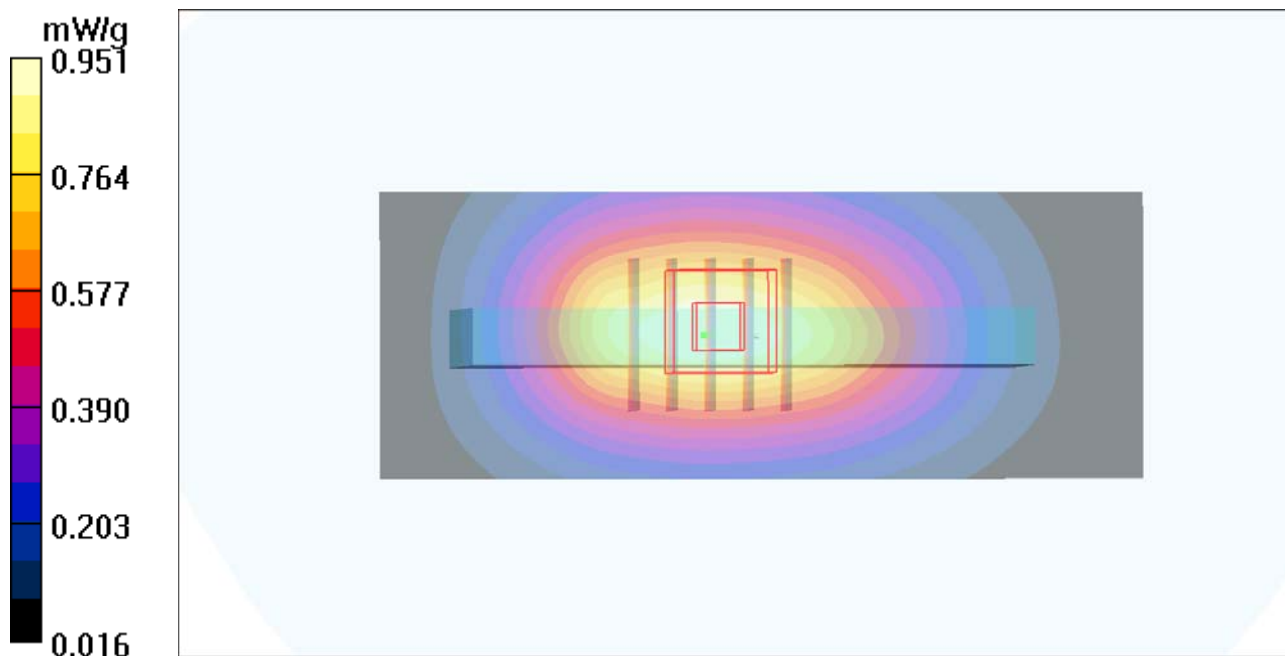
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.7 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.536 mW/g**

Maximum value of SAR (measured) = 0.942 mW/g



### P53 GSM850\_GPRS11\_Right Side\_1cm\_Ch251

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (31x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.763 mW/g

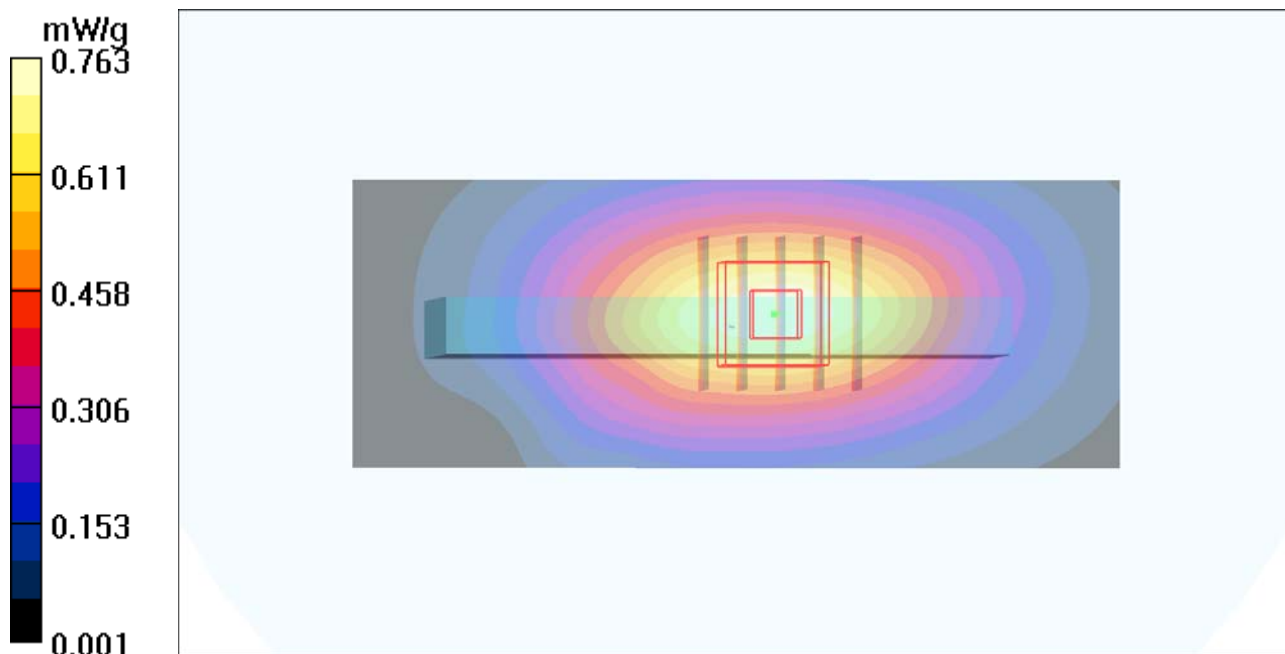
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.2 V/m; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 0.879 W/kg

**SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.425 mW/g**

Maximum value of SAR (measured) = 0.766 mW/g



### P55 GSM850\_GPRS11\_Bottom Side\_1cm\_Ch251

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.211 mW/g

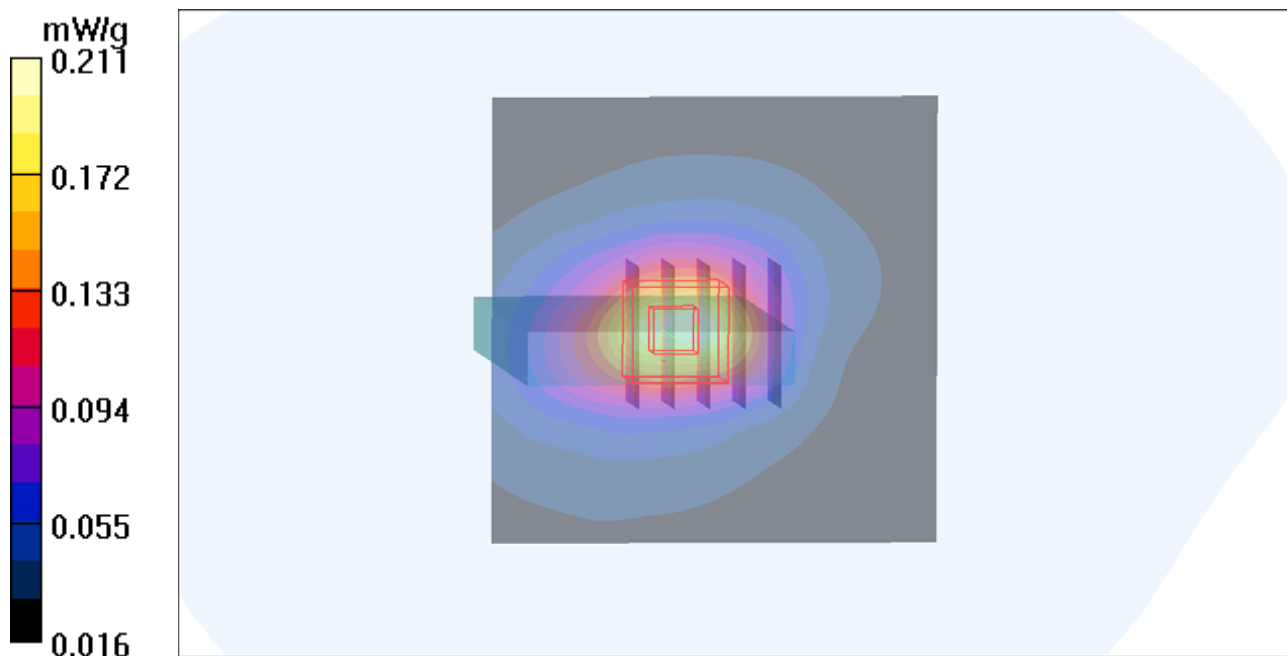
**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.222 W/kg

**SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.094 mW/g**

Maximum value of SAR (measured) = 0.188 mW/g





### P56 GSM850\_GPRS11\_Rear Face\_1cm\_Ch128

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 824.2 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch128/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.830 mW/g

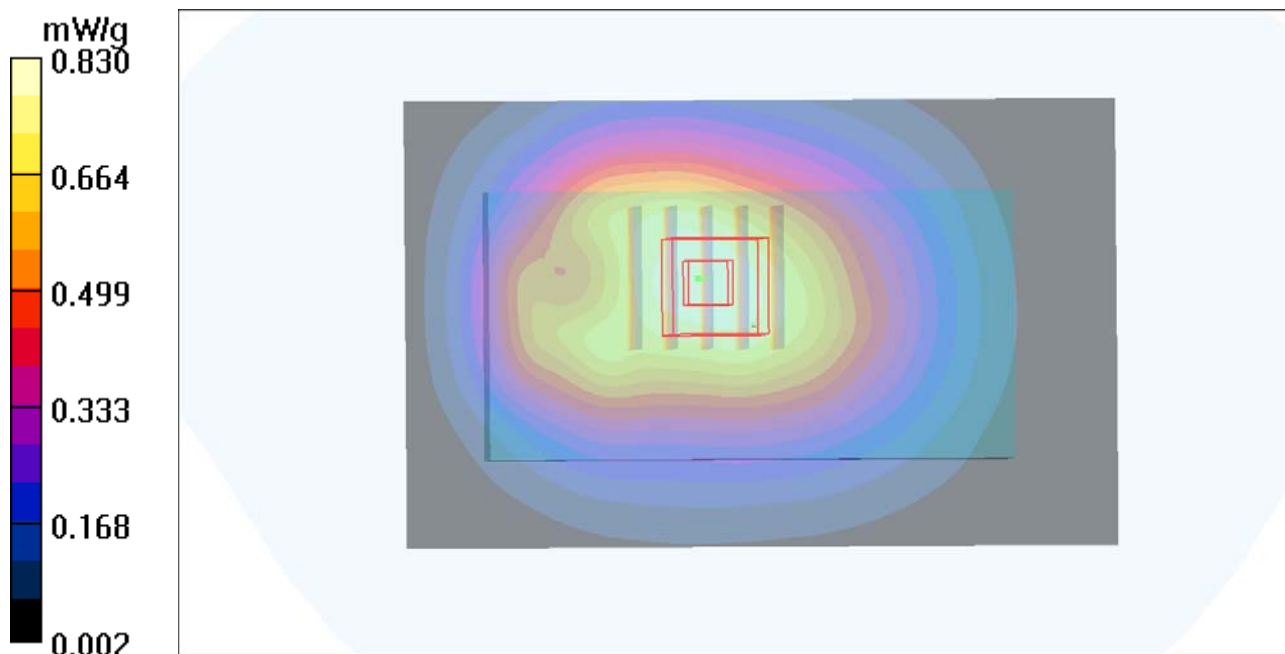
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.6 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 0.948 W/kg

**SAR(1 g) = 0.728 mW/g; SAR(10 g) = 0.538 mW/g**

Maximum value of SAR (measured) = 0.853 mW/g



### P57 GSM850\_GPRS11\_Rear Face\_1cm\_Ch189

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 836.4 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.997$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch189/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.02 mW/g

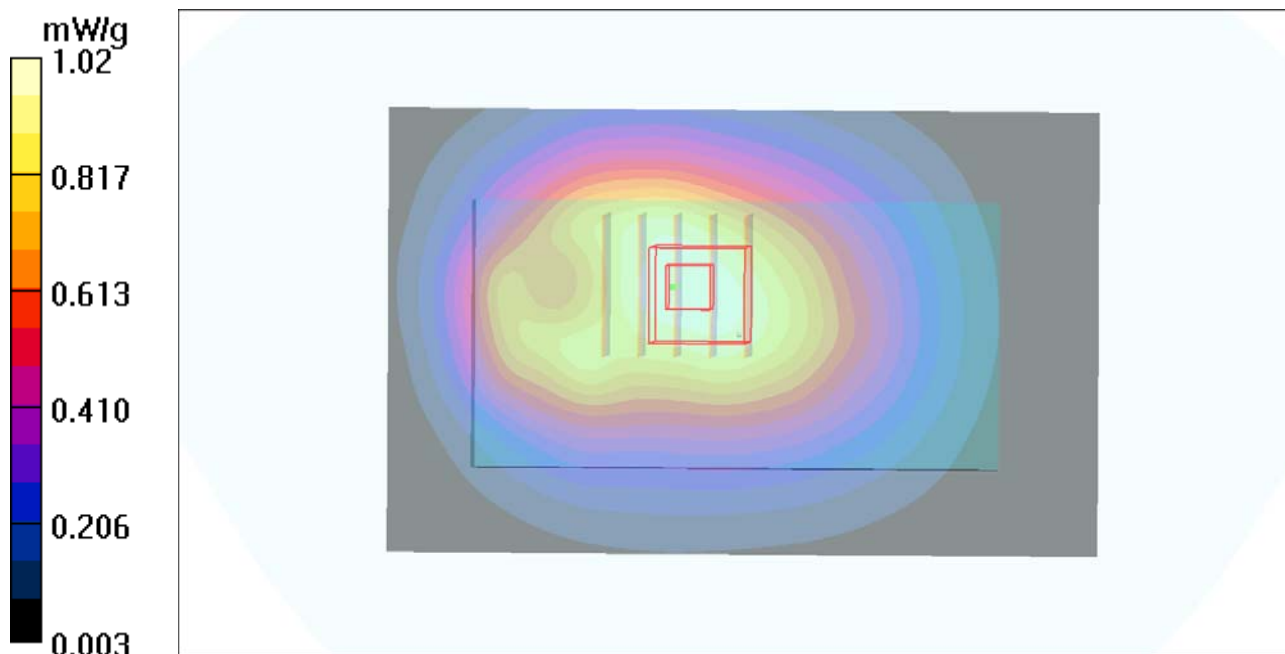
**Ch189/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.1 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.17 W/kg

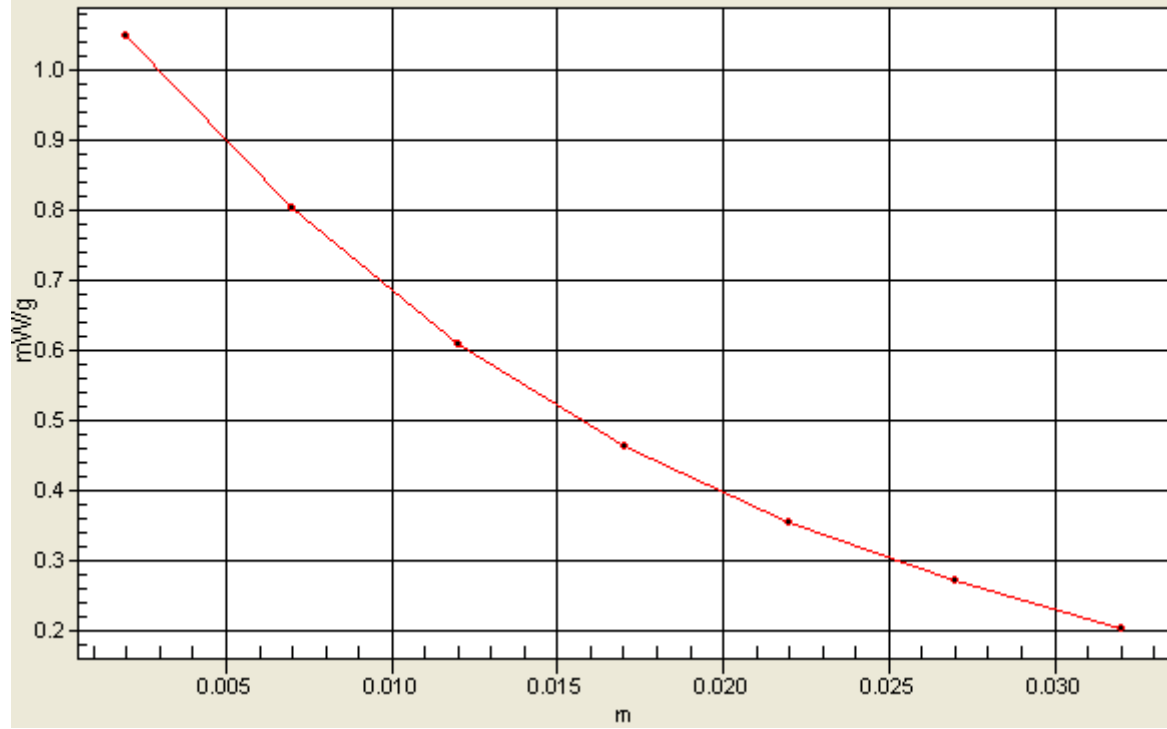
**SAR(1 g) = 0.898 mW/g; SAR(10 g) = 0.660 mW/g**

Maximum value of SAR (measured) = 1.04 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



### P73 GSM850\_GPRS11\_Rear Face\_1cm\_Ch189\_Battery2

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 836.4 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0417 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.994$  mho/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.4 °C

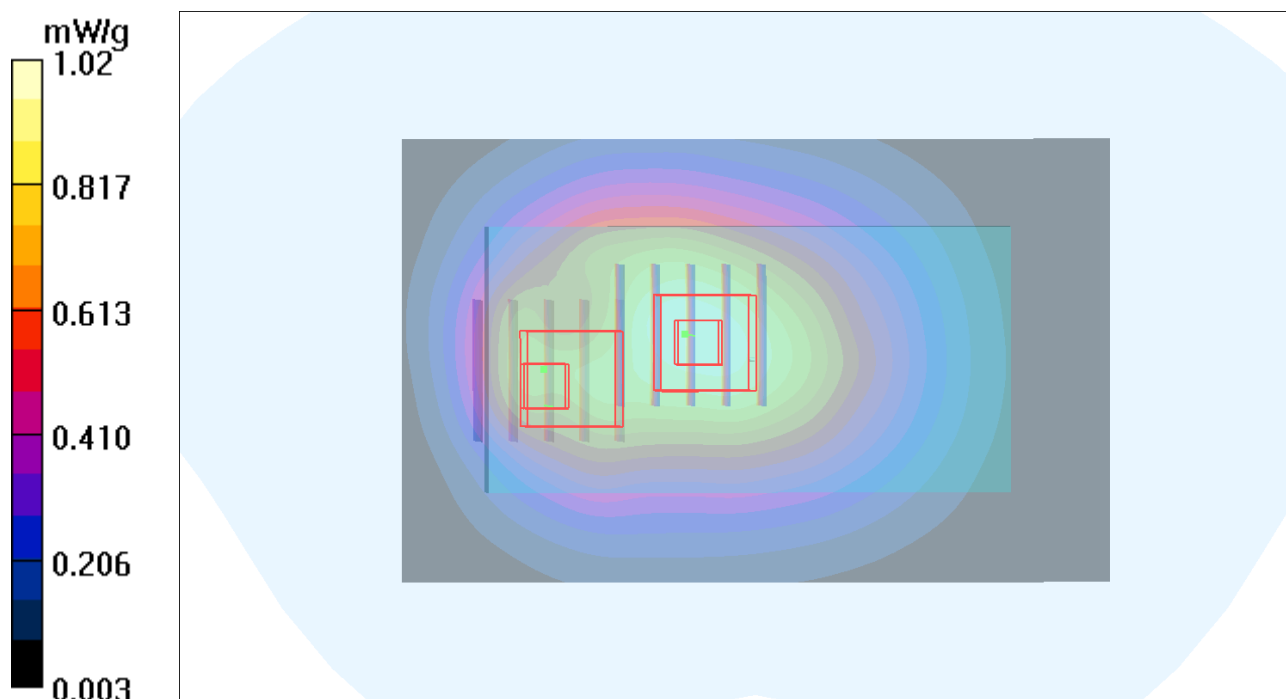
DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch189/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 1.02 mW/g

**Ch189/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 31.8 V/m; Power Drift = -0.183 dB  
Peak SAR (extrapolated) = 1.13 W/kg  
**SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.648 mW/g**  
Maximum value of SAR (measured) = 1.02 mW/g

**Ch189/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 31.8 V/m; Power Drift = -0.183 dB  
Peak SAR (extrapolated) = 1.02 W/kg  
**SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.475 mW/g**  
Maximum value of SAR (measured) = 0.865 mW/g



## P79 GSM850\_GPRS11\_Rear Face\_1cm\_Ch128\_Battery2

### DUT: 120321C23

Communication System: GSM850 GPRS11; Frequency: 824.2 MHz; Duty Cycle: 1:2.67

Medium: B835\_0417 Medium parameters used :  $f = 824.2$  MHz;  $\sigma = 0.977$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho =$

$1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.4 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch128/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.766 mW/g

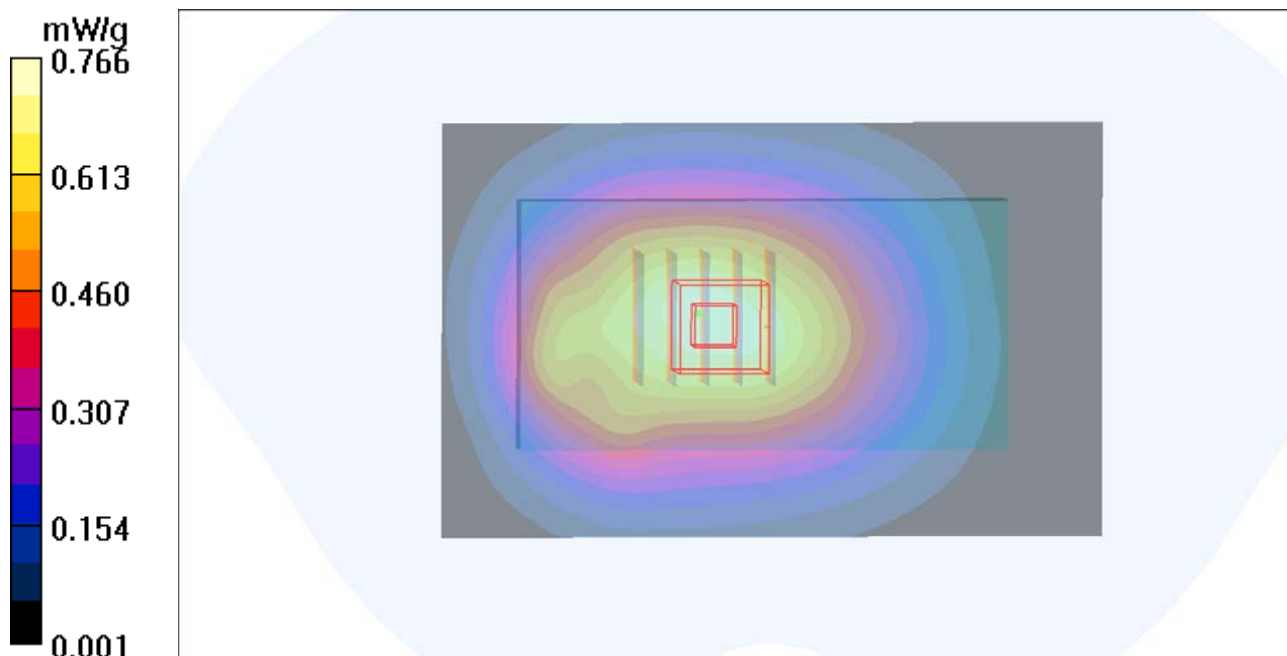
**Ch128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.3 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.870 W/kg

**SAR(1 g) = 0.678 mW/g; SAR(10 g) = 0.502 mW/g**

Maximum value of SAR (measured) = 0.780 mW/g



## P80 GSM850\_GPRS11\_Rear Face\_1cm\_Ch251\_Battery2

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0417 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.4 °C

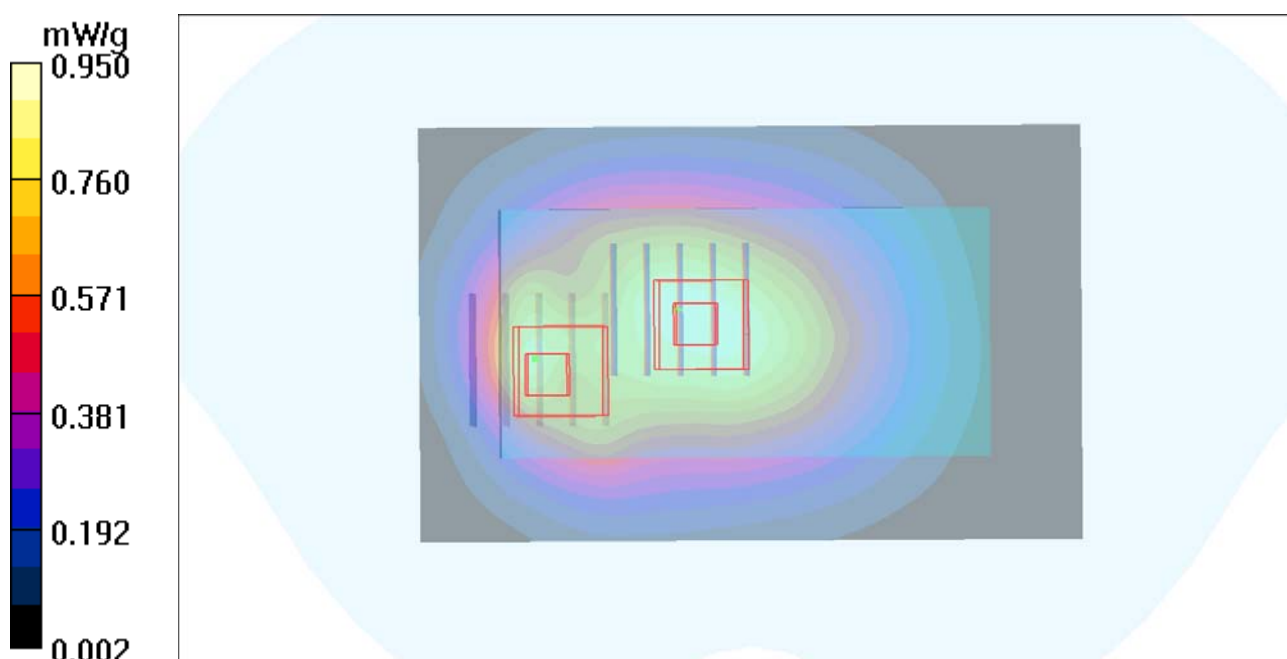
DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 0.950 mW/g

**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 29.8 V/m; Power Drift = -0.022 dB  
Peak SAR (extrapolated) = 1.05 W/kg  
**SAR(1 g) = 0.816 mW/g; SAR(10 g) = 0.604 mW/g**  
Maximum value of SAR (measured) = 0.939 mW/g

**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 29.8 V/m; Power Drift = -0.022 dB  
Peak SAR (extrapolated) = 1.10 W/kg  
**SAR(1 g) = 0.719 mW/g; SAR(10 g) = 0.474 mW/g**  
Maximum value of SAR (measured) = 0.915 mW/g



## P58 GSM850\_GPRS11\_Front Face\_1cm\_Ch251\_Earphone

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.645 mW/g

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

Reference Value = 25.3 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.690 W/kg

**SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.411 mW/g**

Maximum value of SAR (measured) = 0.619 mW/g

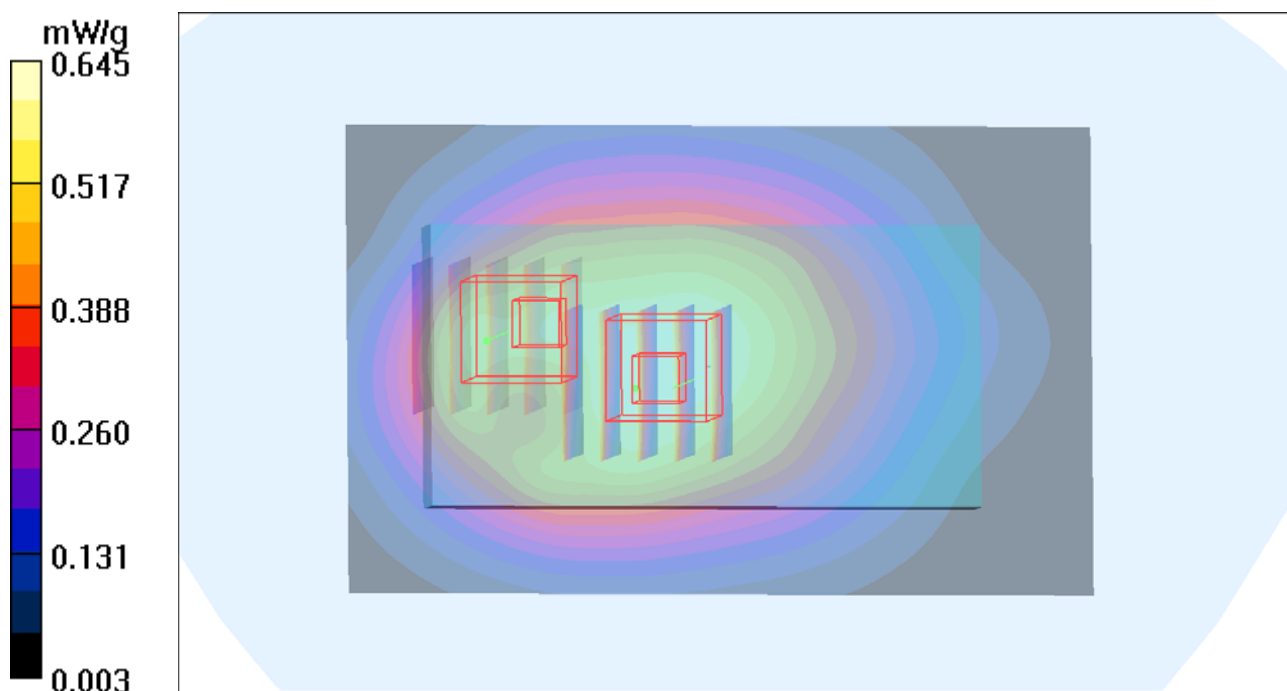
**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.3 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.434 mW/g; SAR(10 g) = 0.312 mW/g**

Maximum value of SAR (measured) = 0.497 mW/g



### P59 GSM850\_GPRS11\_Rear Face\_1cm\_Ch251\_Earphone

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0405 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.951 mW/g

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

Reference Value = 26.5 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.481 mW/g**

Maximum value of SAR (measured) = 0.988 mW/g

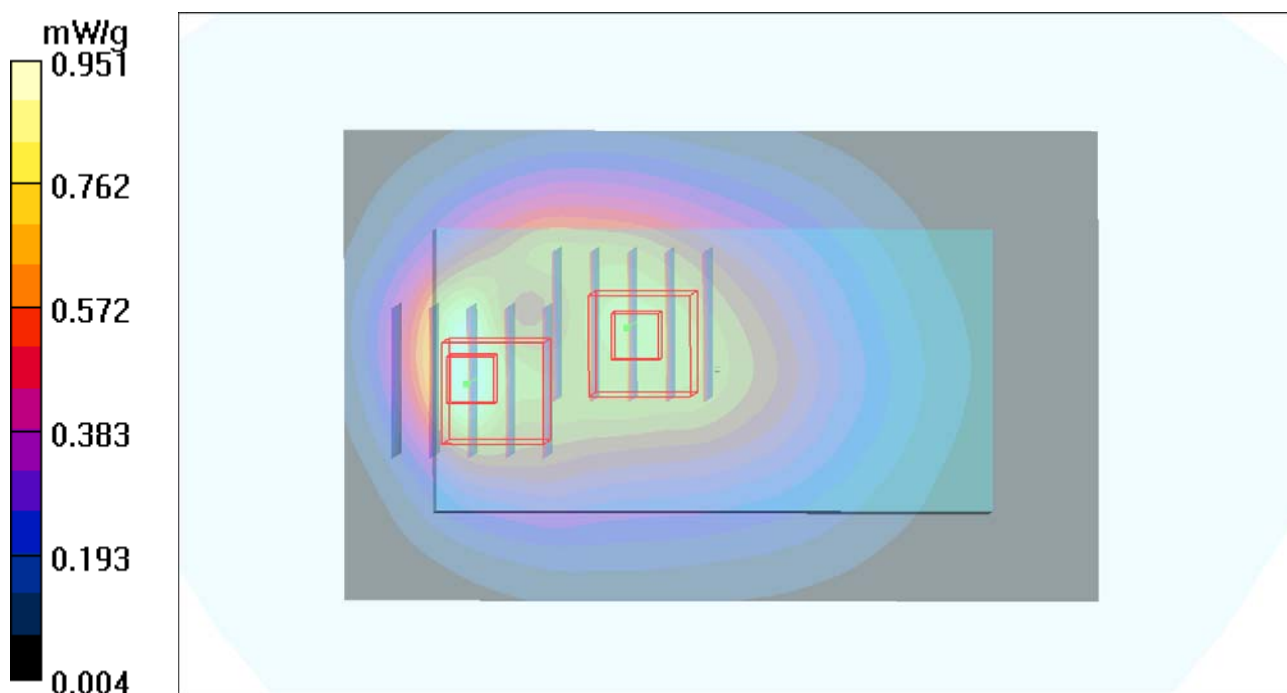
**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.5 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 0.886 W/kg

**SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.491 mW/g**

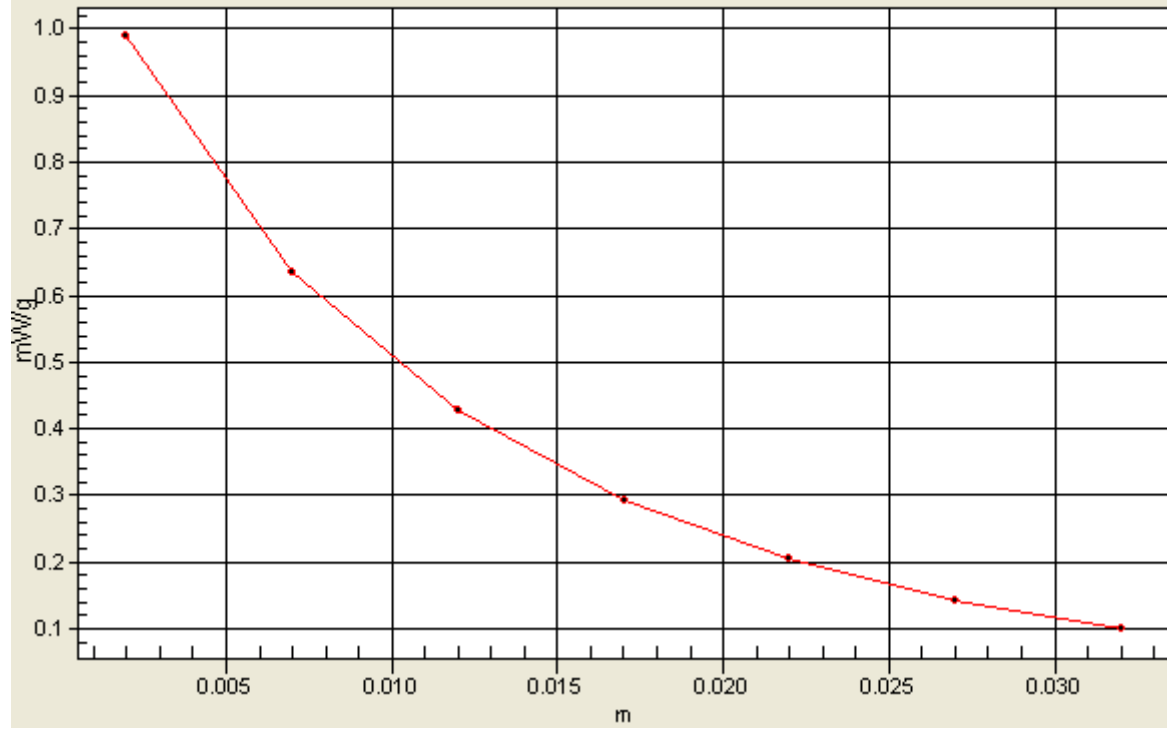
Maximum value of SAR (measured) = 0.784 mW/g





# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



### P74 GSM850\_GPRS11\_Rear Face\_1cm\_Ch251\_Battery2\_Earphone

**DUT: 120321C23**

Communication System: GSM850 GPRS11; Frequency: 848.8 MHz; Duty Cycle: 1:2.67  
Medium: B835\_0417 Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 21.2 °C; Liquid Temperature : 20.4 °C

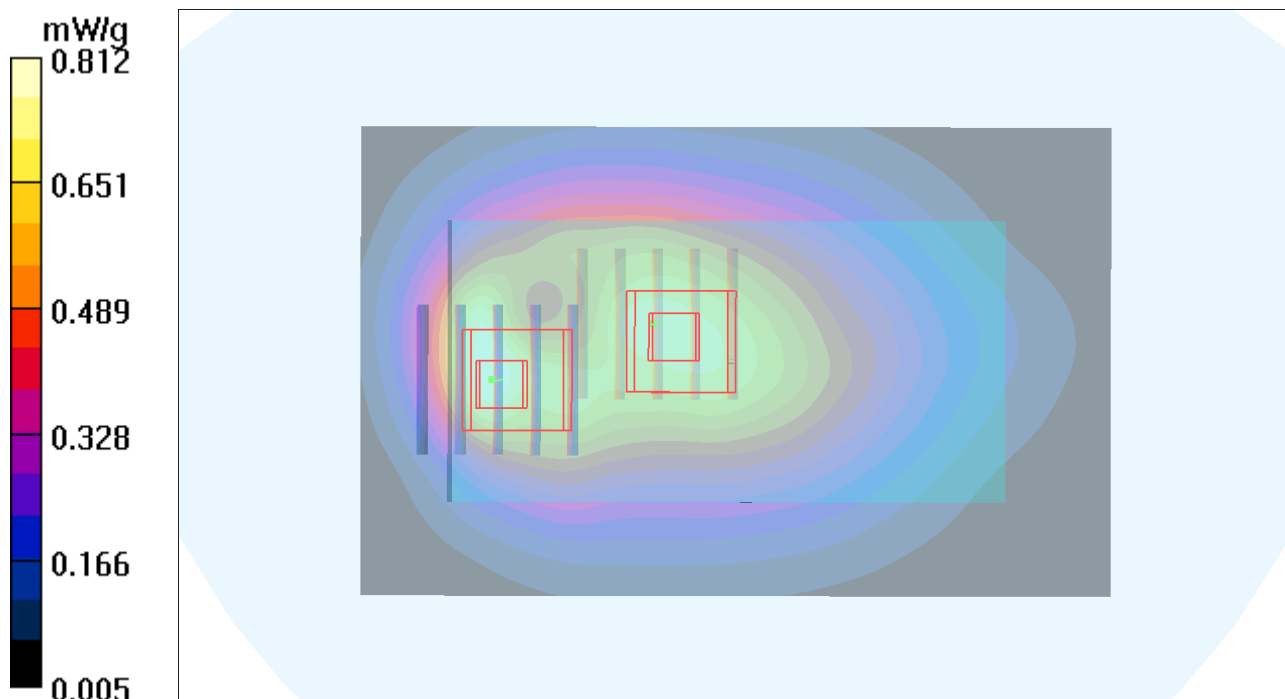
DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch251/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 0.812 mW/g

**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 26.5 V/m; Power Drift = -0.031 dB  
Peak SAR (extrapolated) = 1.10 W/kg  
**SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.439 mW/g**  
Maximum value of SAR (measured) = 0.923 mW/g

**Ch251/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 26.5 V/m; Power Drift = -0.031 dB  
Peak SAR (extrapolated) = 0.957 W/kg  
**SAR(1 g) = 0.645 mW/g; SAR(10 g) = 0.478 mW/g**  
Maximum value of SAR (measured) = 0.744 mW/g



## P60 GSM1900\_GPRS12\_Front Face\_1cm\_Ch512

**DUT: 120321C23**

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.424 mW/g

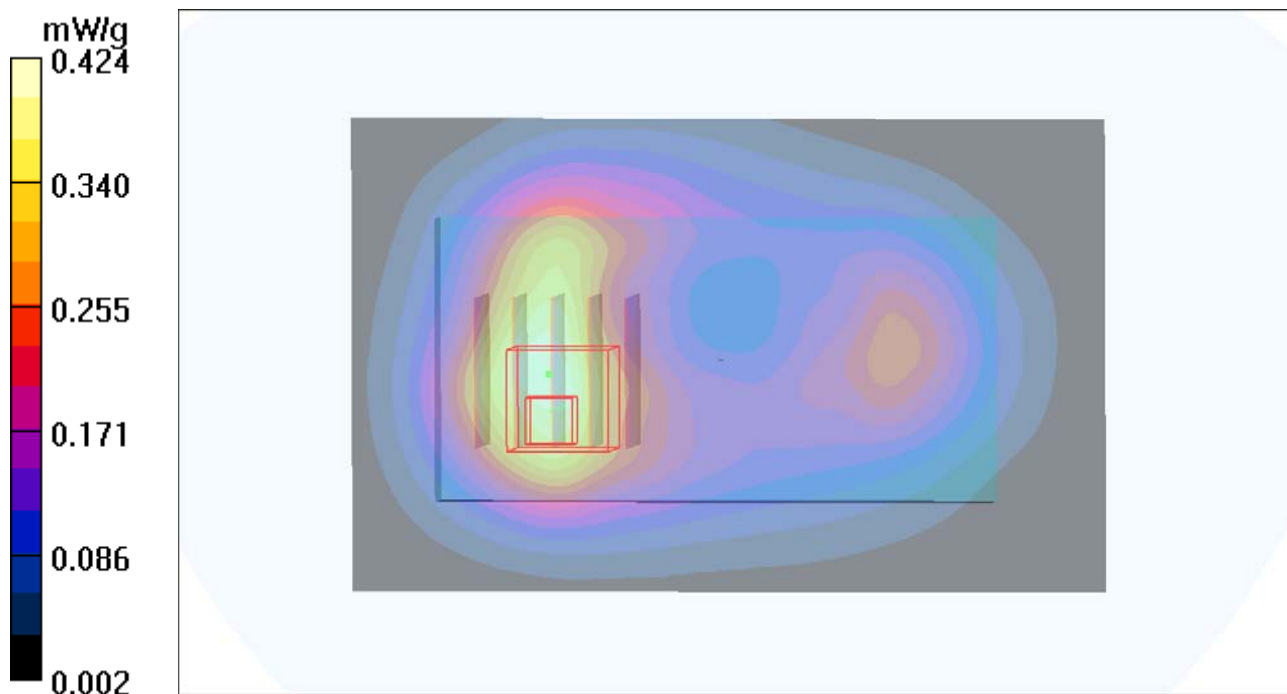
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.56 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.454 W/kg

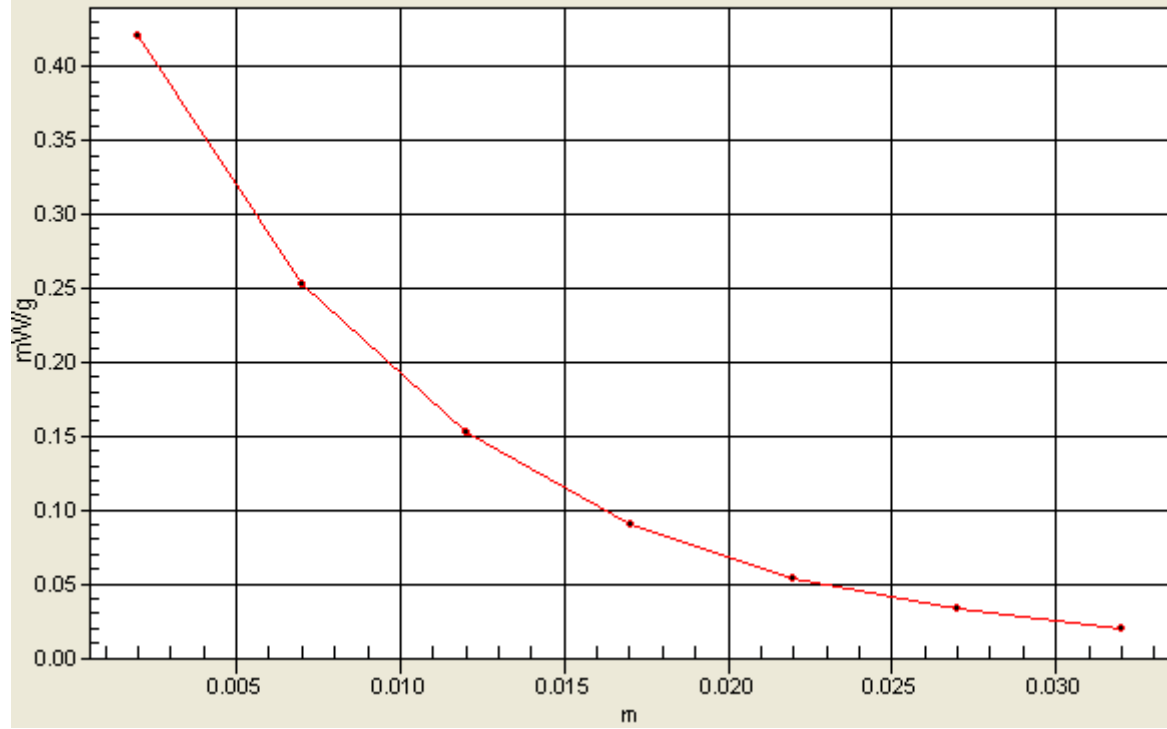
**SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.179 mW/g**

Maximum value of SAR (measured) = 0.420 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=1, Y=2



## P61 GSM1900\_GPRS12\_Rear Face\_1cm\_Ch512

### DUT: 120321C23

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.5 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### Ch512/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

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

Reference Value = 7.46 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.429 W/kg

**SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.146 mW/g**

Maximum value of SAR (measured) = 0.343 mW/g

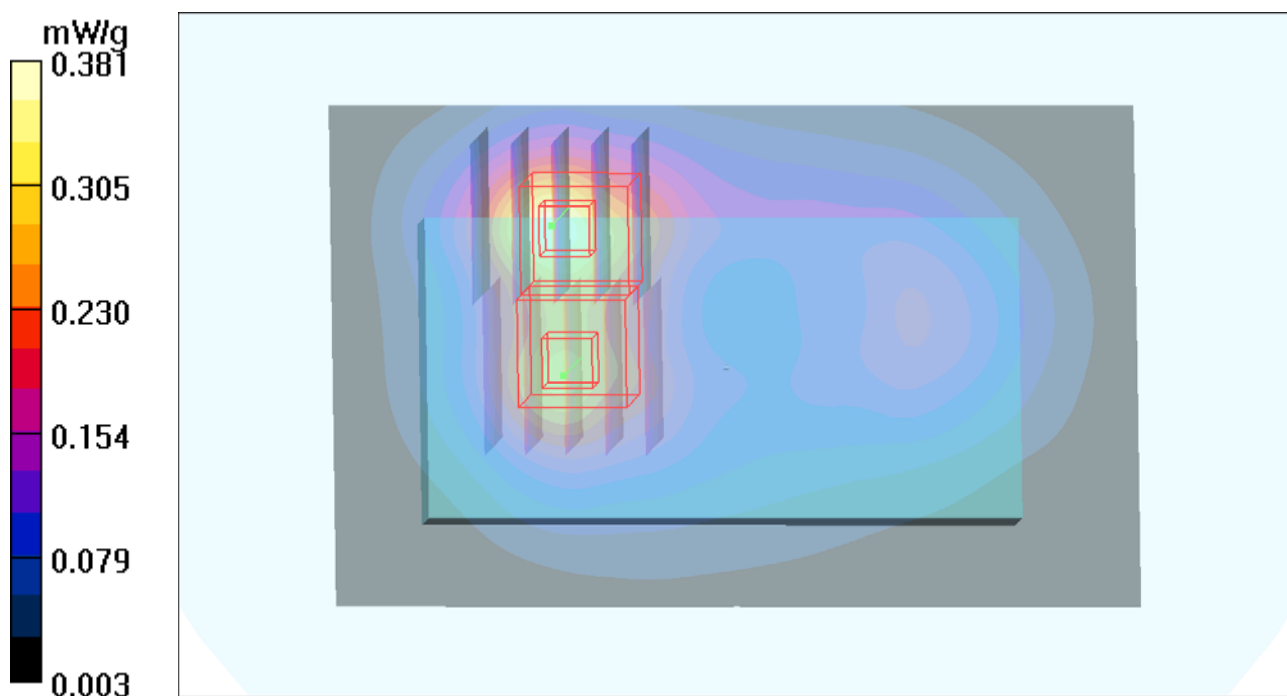
#### Ch512/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.46 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.393 W/kg

**SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 0.320 mW/g



## P62 GSM1900\_GPRS12\_Left Side\_1cm\_Ch512

### DUT: 120321C23

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C; Liquid Temperature : 21.5 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

#### Ch512/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.126 mW/g

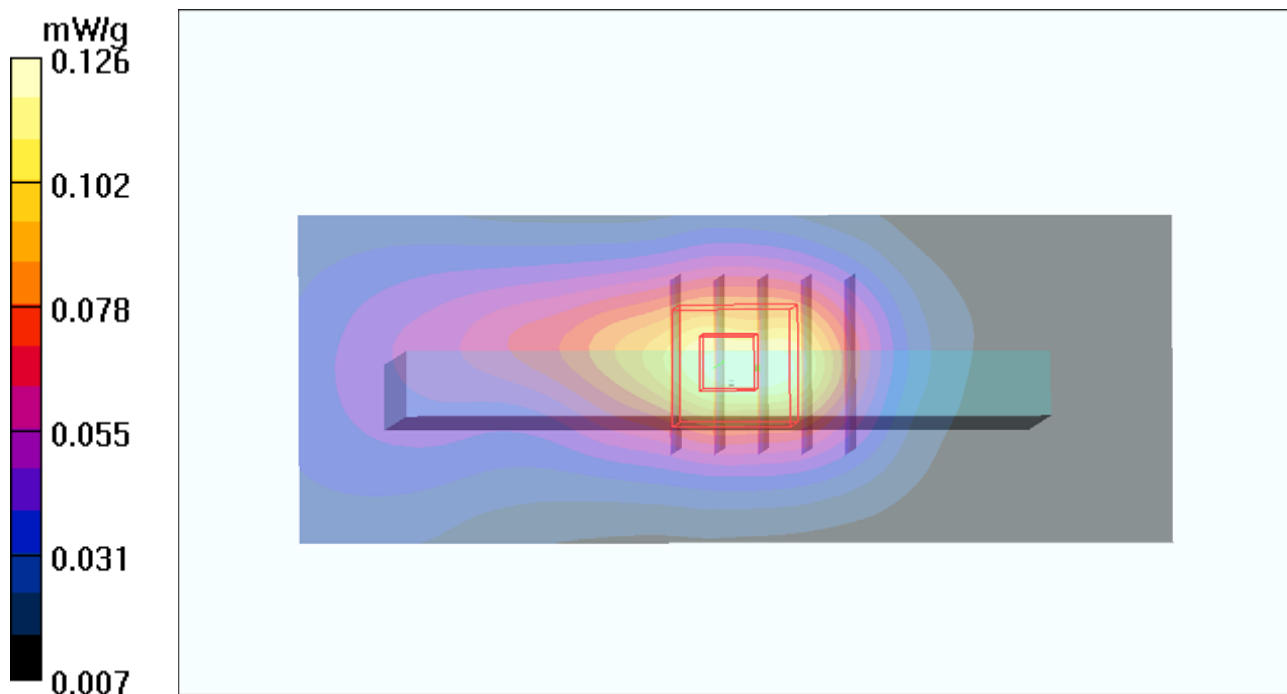
#### Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.776 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.183 W/kg

**SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.055 mW/g**

Maximum value of SAR (measured) = 0.119 mW/g



### P63 GSM1900\_GPRS12\_Right Side\_1cm\_Ch512

**DUT: 120321C23**

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (31x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.231 mW/g

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

Reference Value = 11.6 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 0.270 W/kg

**SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.100 mW/g**

Maximum value of SAR (measured) = 0.223 mW/g

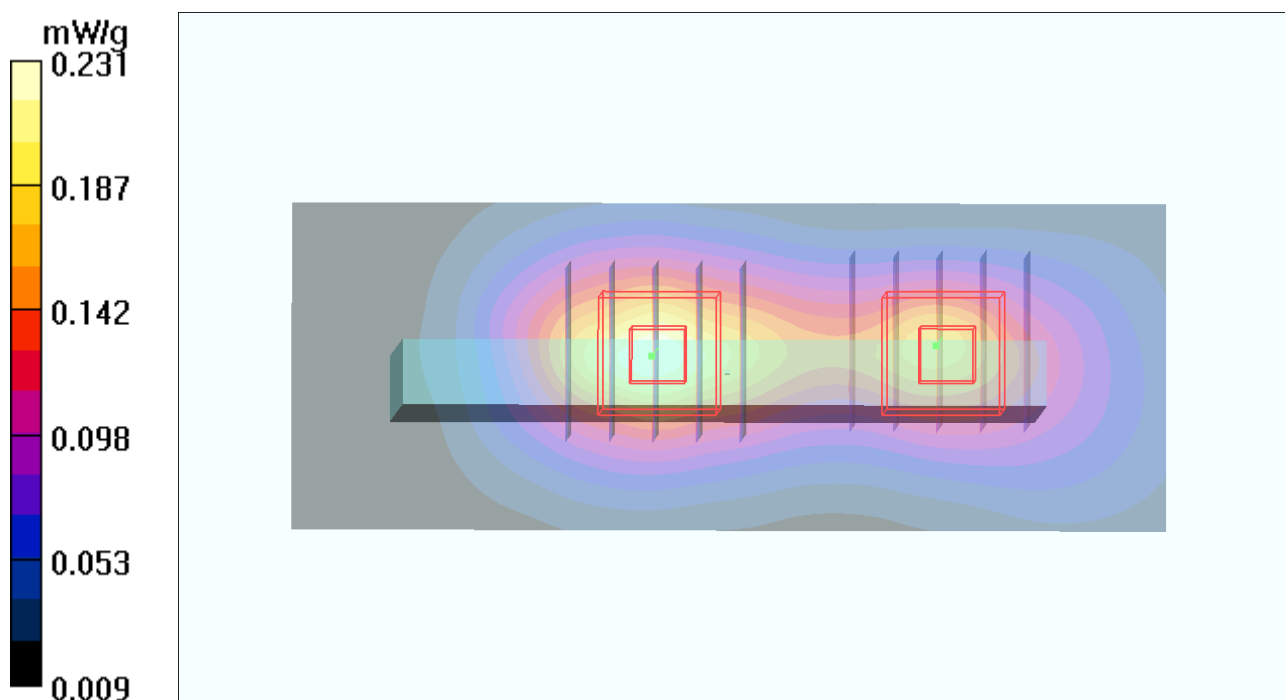
**Ch512/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 0.272 W/kg

**SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.089 mW/g**

Maximum value of SAR (measured) = 0.214 mW/g



## P65 GSM1900\_GPRS12\_Bottom Side\_1cm\_Ch512

### DUT: 120321C23

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C; Liquid Temperature : 21.5 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.191 mW/g

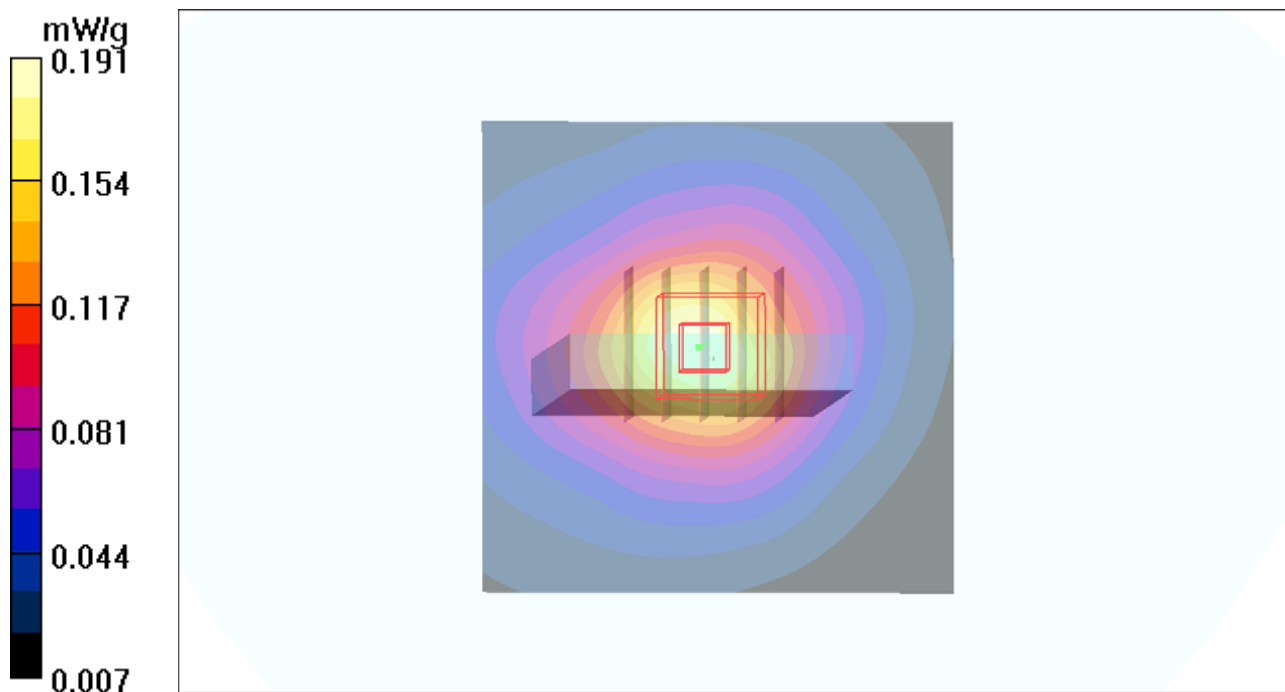
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.241 W/kg

**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.092 mW/g**

Maximum value of SAR (measured) = 0.199 mW/g





### P75 GSM1900\_GPRS12\_Front Face\_1cm\_Ch512\_Battery2

**DUT: 120321C23**

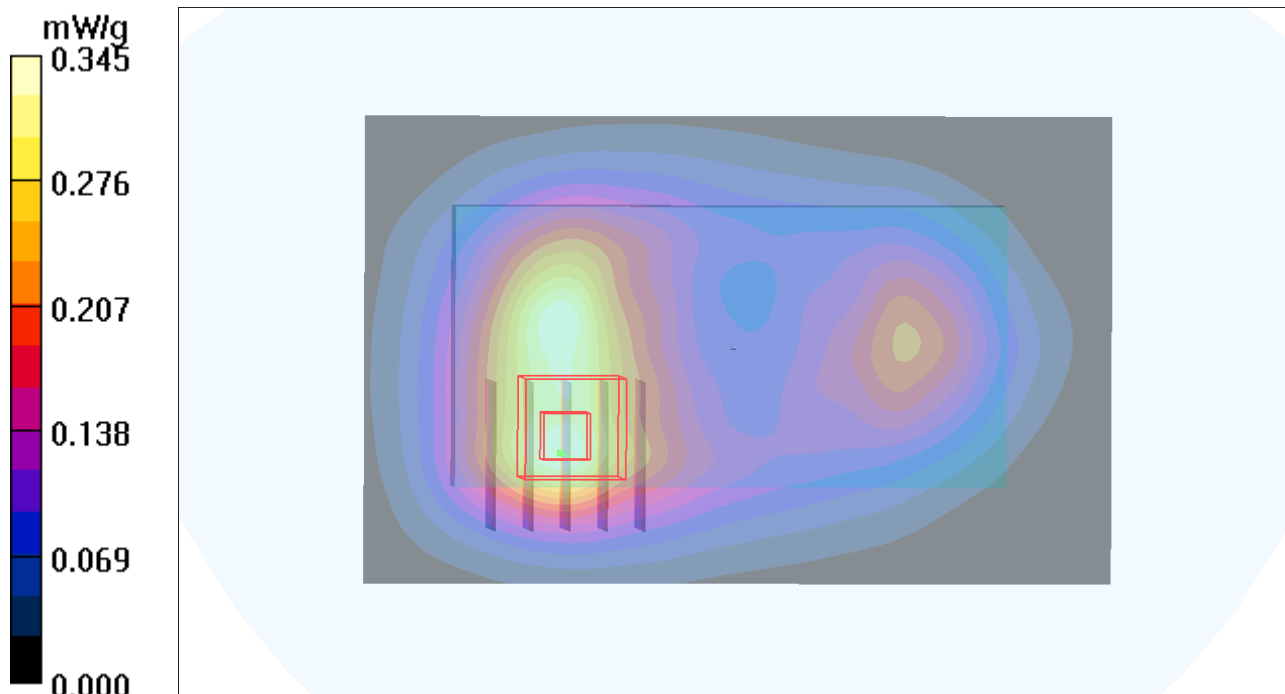
Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0417 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 21.5 °C; Liquid Temperature : 20.8 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.46, 7.46, 7.46); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 0.345 mW/g

**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.94 V/m; Power Drift = -0.023 dB  
Peak SAR (extrapolated) = 0.429 W/kg  
**SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.158 mW/g**  
Maximum value of SAR (measured) = 0.345 mW/g



## P68 GSM1900\_GPRS12\_Front Face\_1cm\_Ch512\_Earphone

**DUT: 120321C23**

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

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

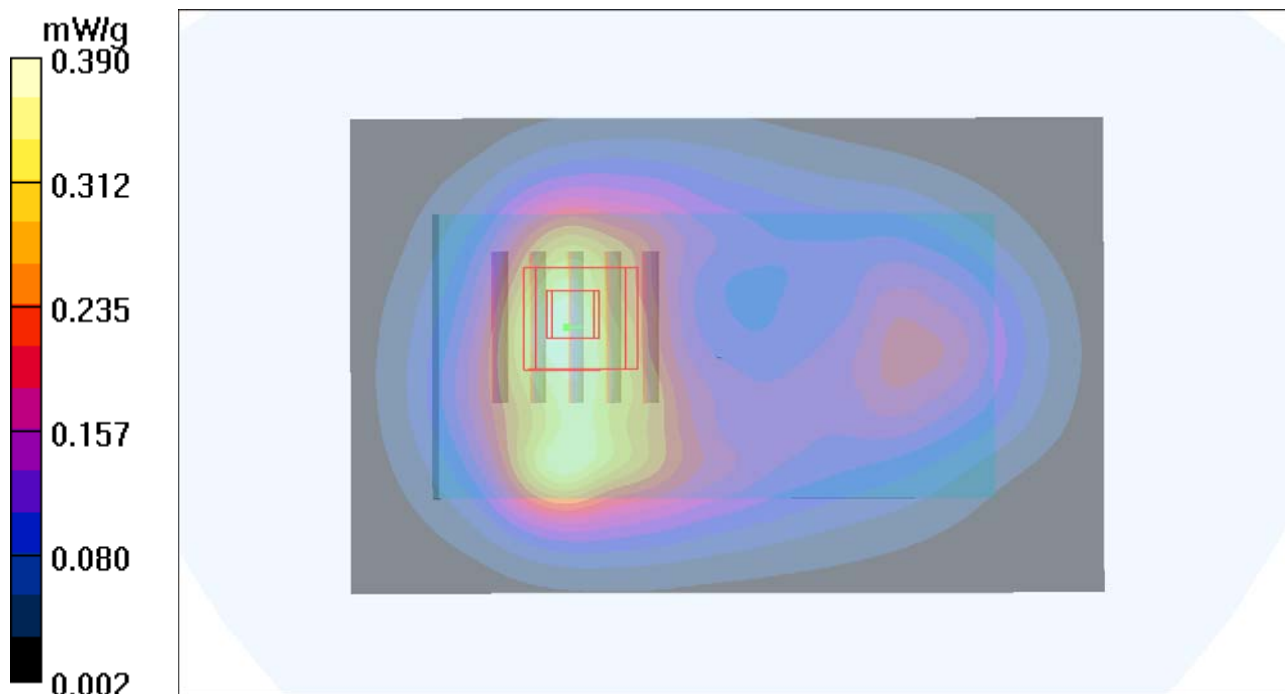
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.85 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 0.458 W/kg

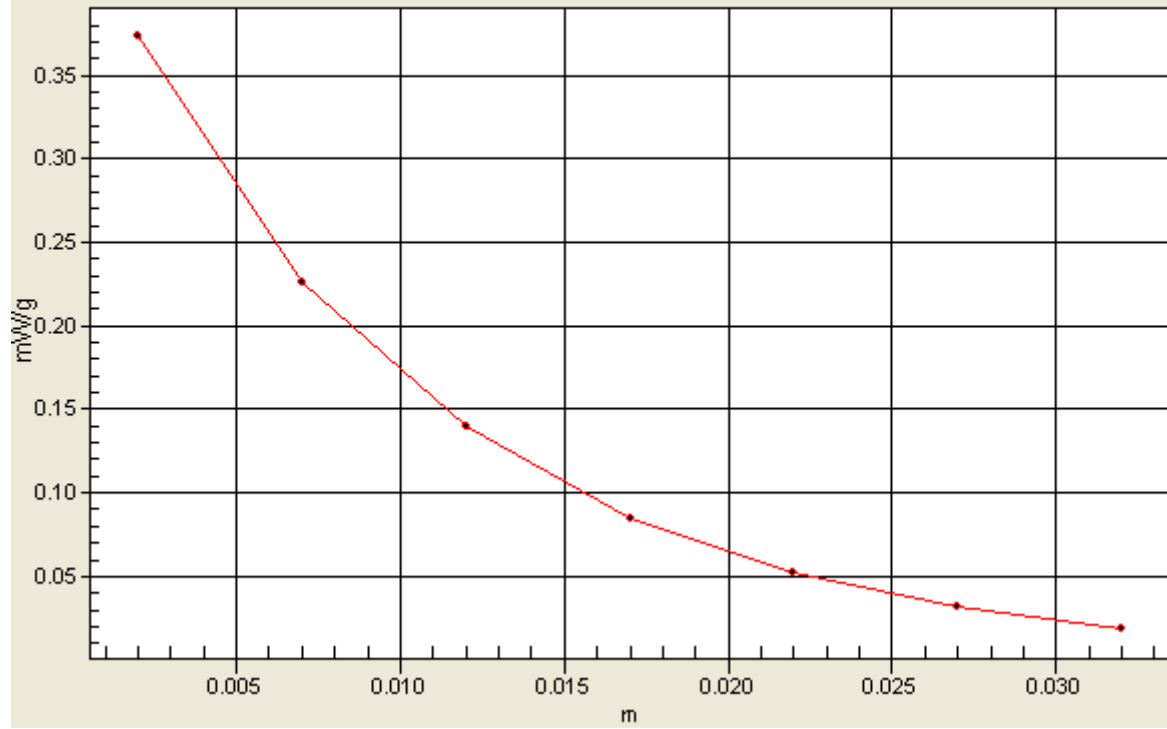
**SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.172 mW/g**

Maximum value of SAR (measured) = 0.373 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



## P69 GSM1900\_GPRS12\_Rear Face\_1cm\_Ch512\_Earphone

**DUT: 120321C23**

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2  
Medium: B1900\_0405 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 22.3 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.97, 6.97, 6.97); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.394 mW/g

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

Reference Value = 7.89 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.480 W/kg

**SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.155 mW/g**

Maximum value of SAR (measured) = 0.370 mW/g

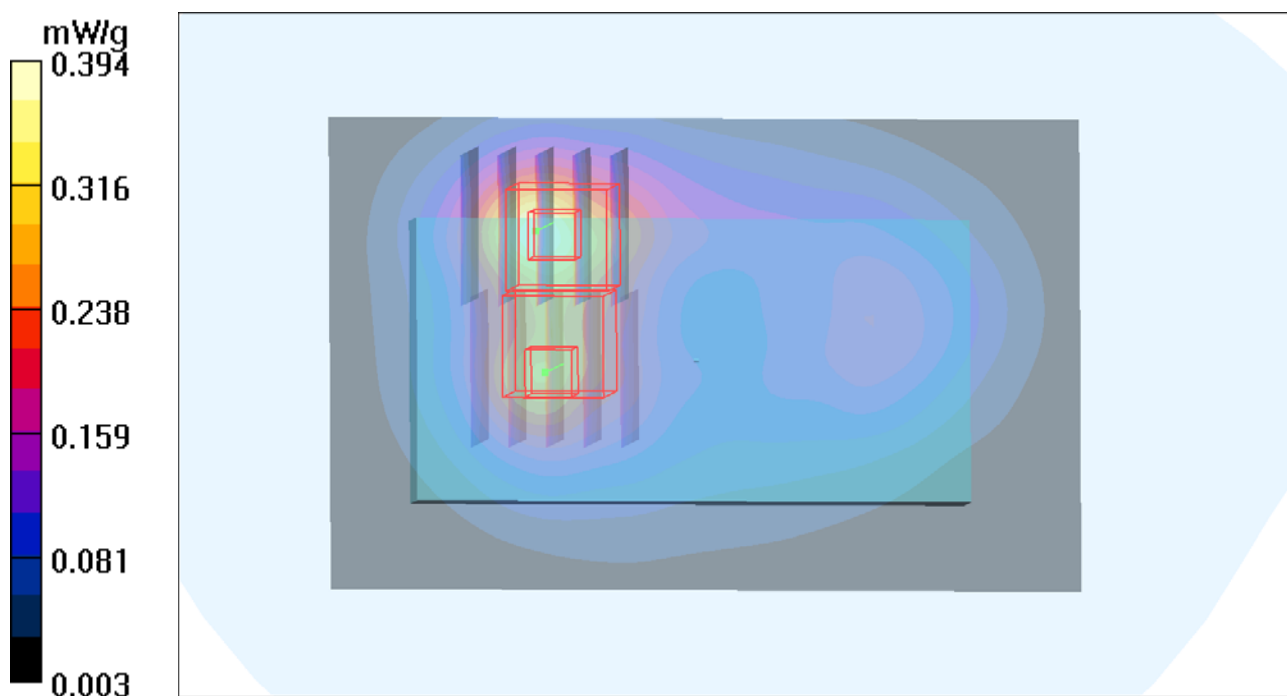
**Ch512/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.89 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.334 W/kg

**SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.131 mW/g**

Maximum value of SAR (measured) = 0.299 mW/g



## P76 GSM1900\_GPRS12\_Front Face\_1cm\_Ch512\_Battery2\_Earphone

**DUT: 120321C23**

Communication System: GSM1900 GPRS12; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: B1900\_0417 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.8 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(7.46, 7.46, 7.46); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch512/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.339 mW/g

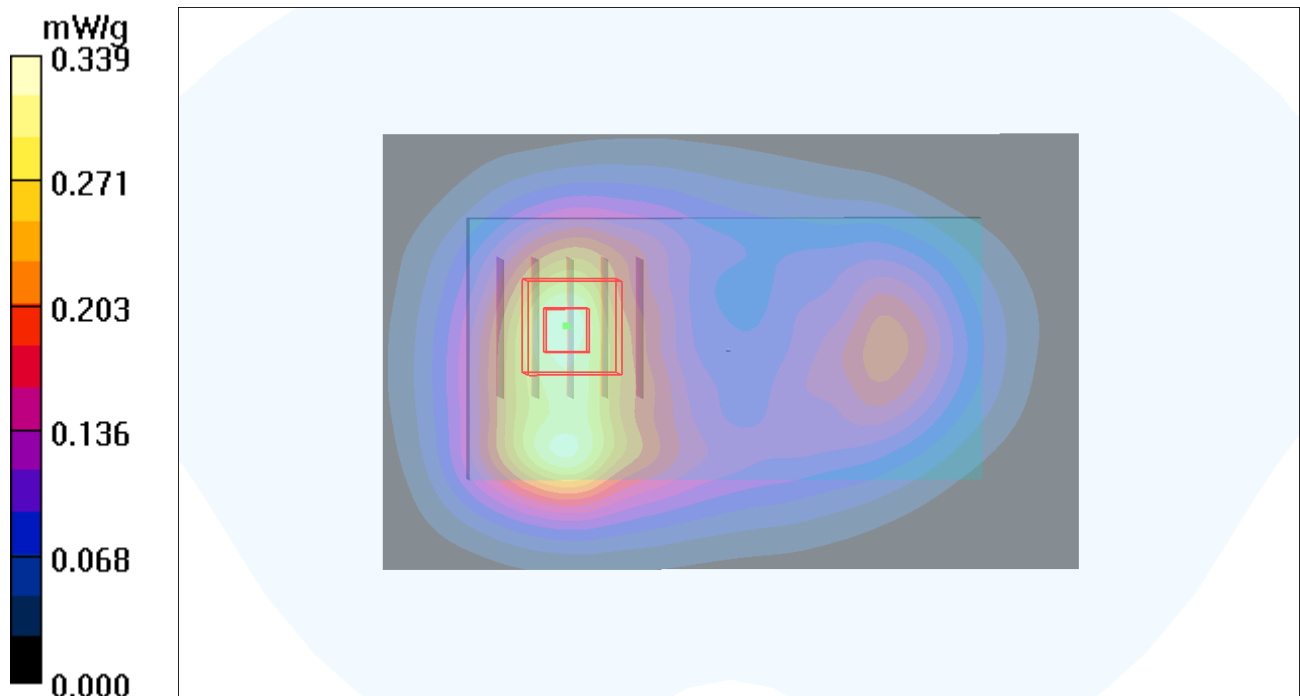
**Ch512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.00 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.448 W/kg

**SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.169 mW/g**

Maximum value of SAR (measured) = 0.367 mW/g



### P15 WCDMA V\_RMC12.2K\_Front Face\_1cm\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.726 mW/g

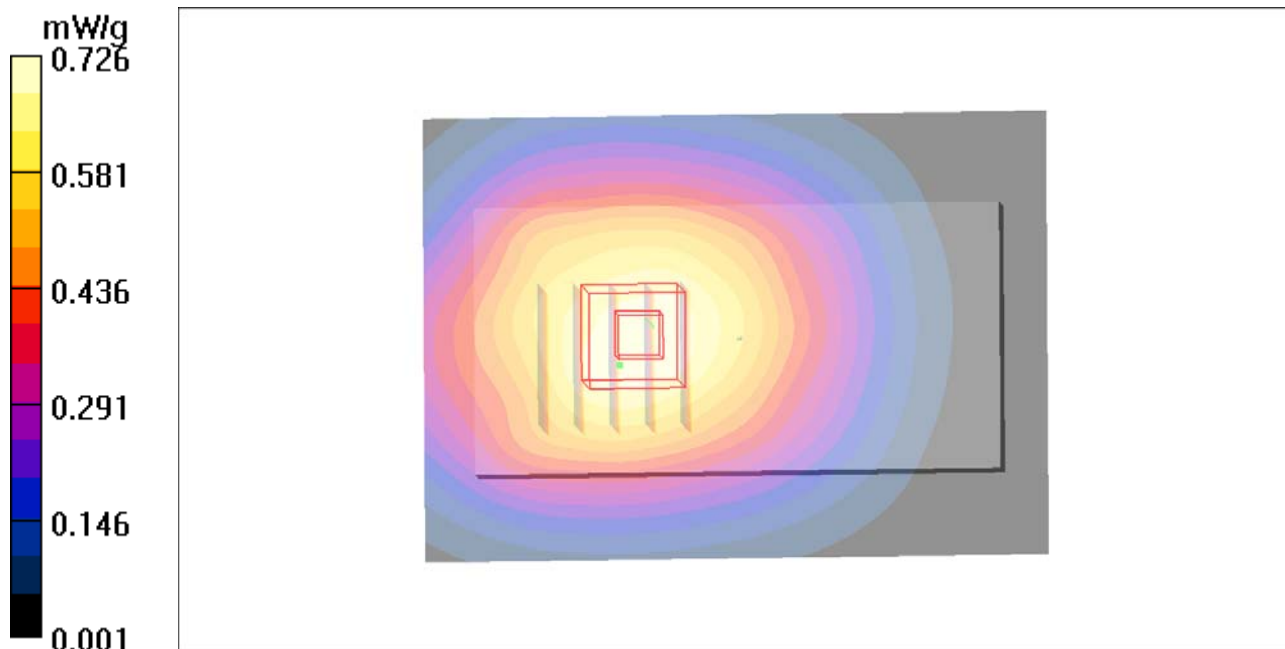
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.778 W/kg

**SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.468 mW/g**

Maximum value of SAR (measured) = 0.702 mW/g



### P16 WCDMA V\_RMC12.2K\_Rear Face\_1cm\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.890 mW/g

**Ch4233/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.981 W/kg

**SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.540 mW/g**

Maximum value of SAR (measured) = 0.867 mW/g

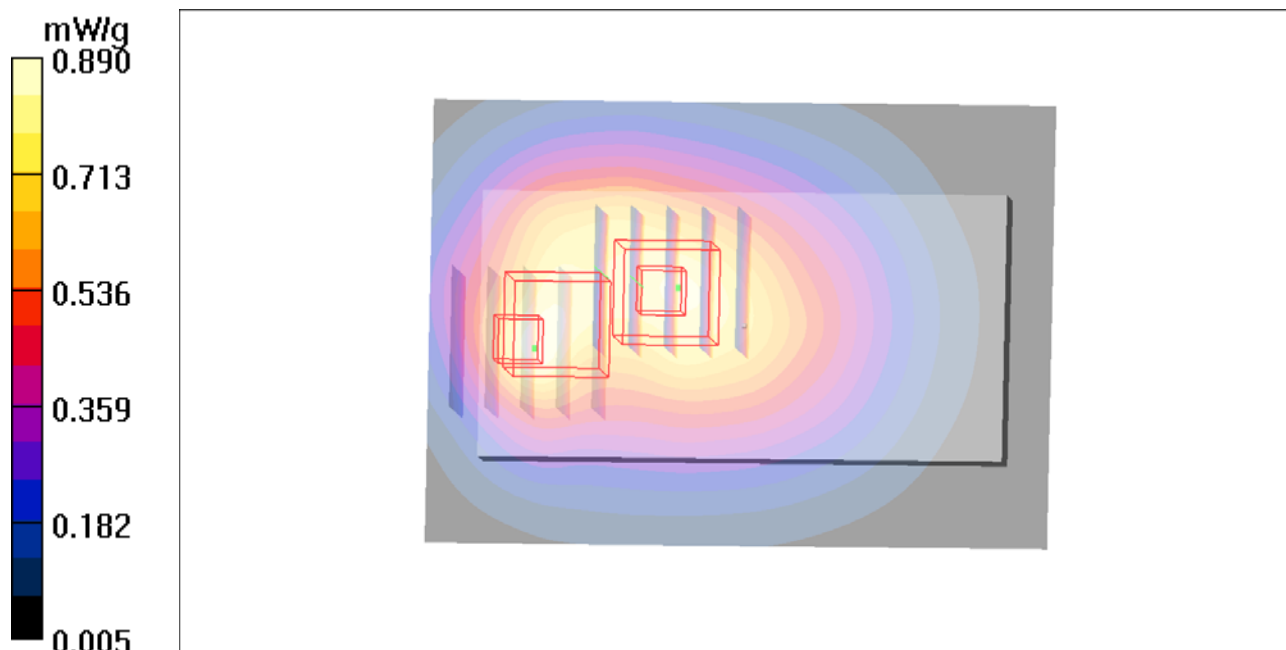
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.927 W/kg

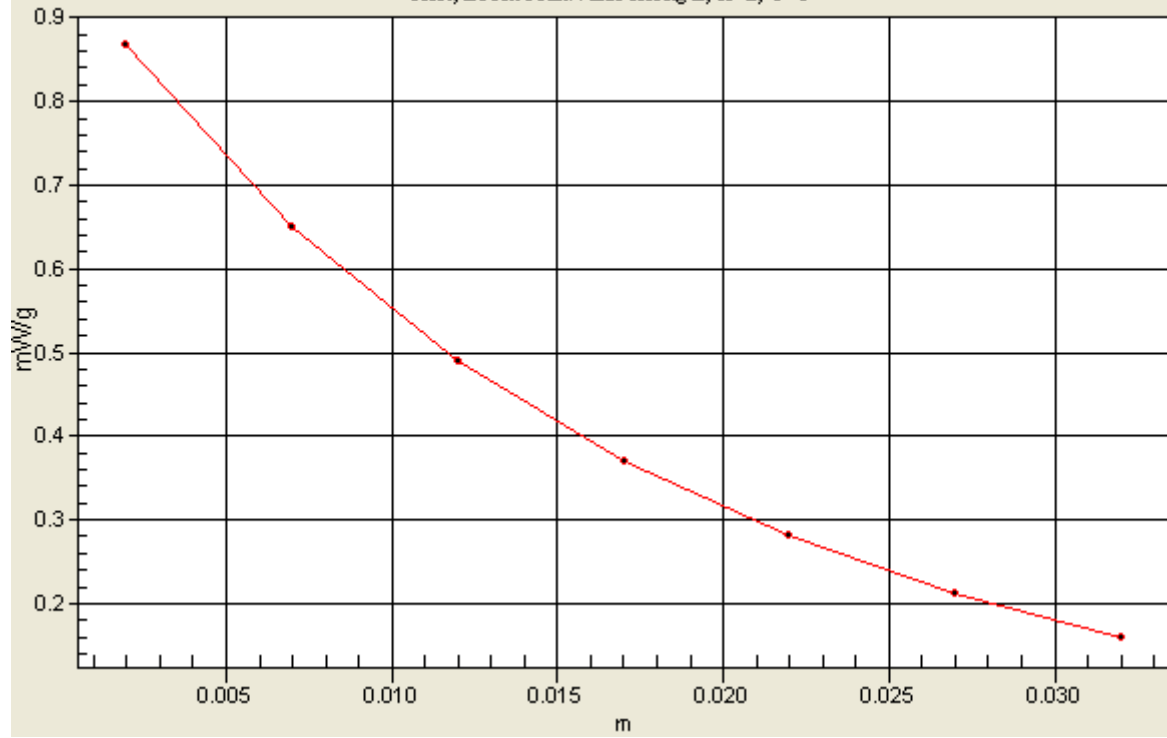
**SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.432 mW/g**

Maximum value of SAR (measured) = 0.784 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=1





### P17 WCDMA V\_RMC12.2K\_Left Side\_1cm\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.775 mW/g

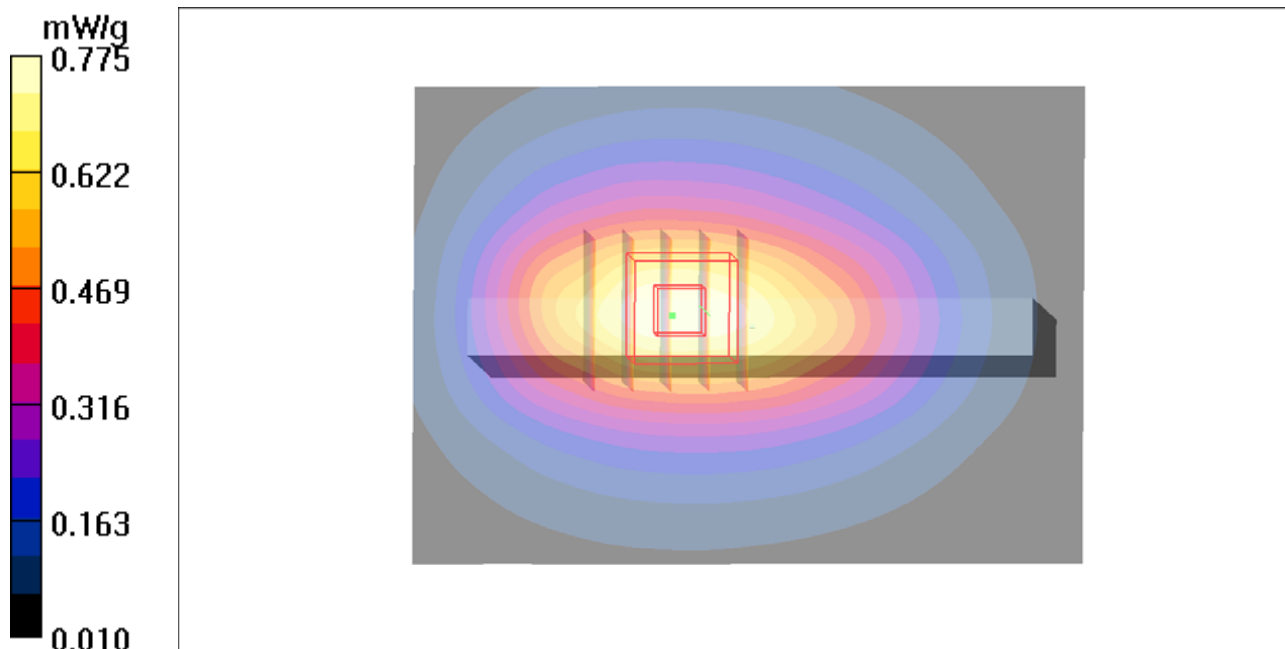
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.8 V/m; Power Drift = 0.091 dB

Peak SAR (extrapolated) = 0.893 W/kg

**SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.443 mW/g**

Maximum value of SAR (measured) = 0.768 mW/g



### P18 WCDMA V\_RMC12.2K\_Right Side\_1cm\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.601 mW/g

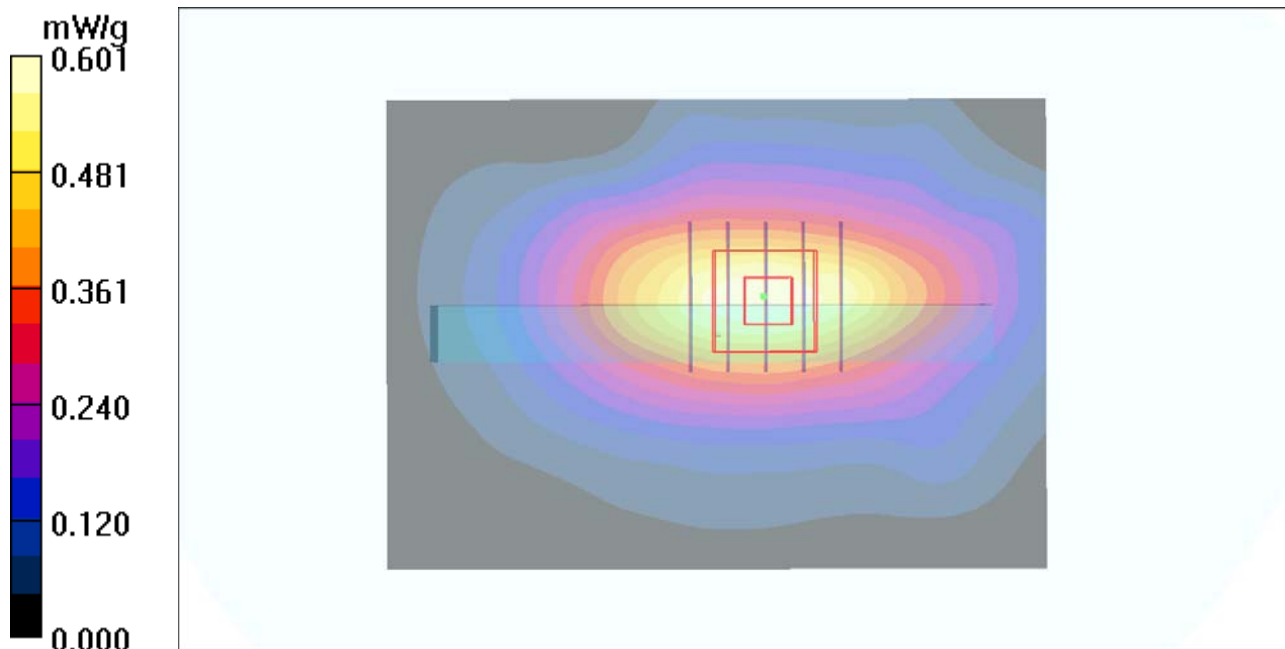
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.2 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.690 W/kg

**SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.331 mW/g**

Maximum value of SAR (measured) = 0.595 mW/g



## P20 WCDMA V\_RMC12.2K\_Bottom Side\_1cm\_Ch4233

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.172 mW/g

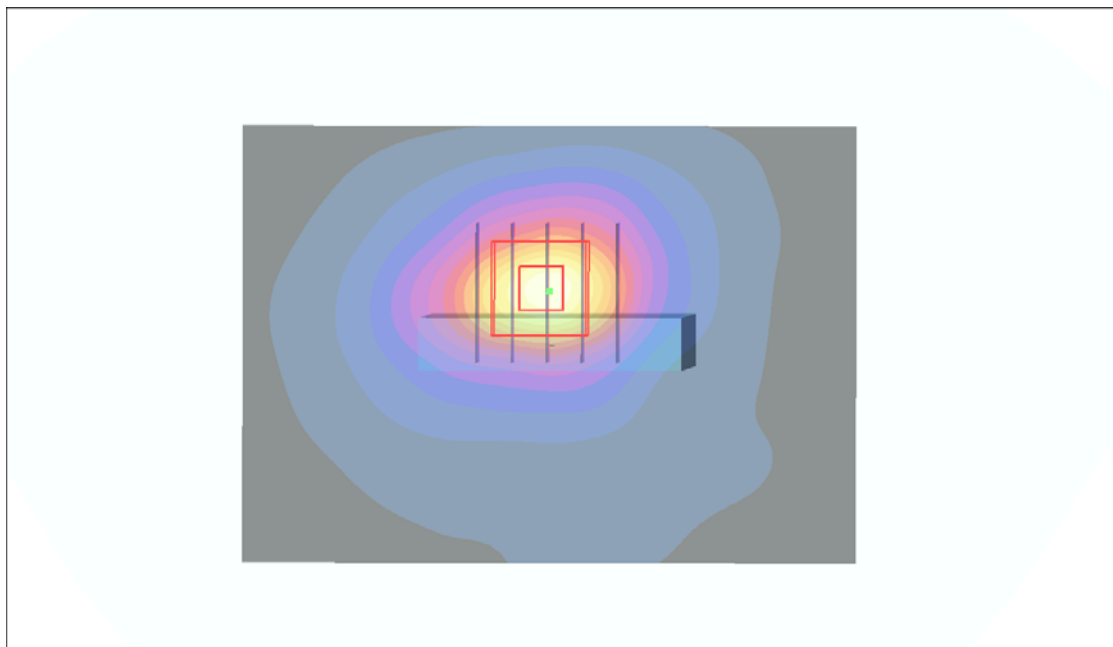
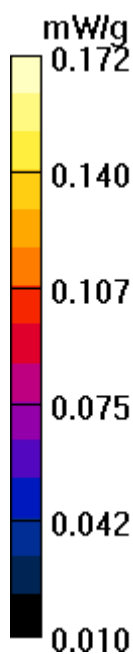
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.166 mW/g



## P77 WCDMA V\_RMC12.2k\_Rear Face\_1cm\_Ch4233\_Battery2

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0417 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C ; Liquid Temperature : 20.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.815 mW/g

**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.906 W/kg

**SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.519 mW/g**

Maximum value of SAR (measured) = 0.811 mW/g

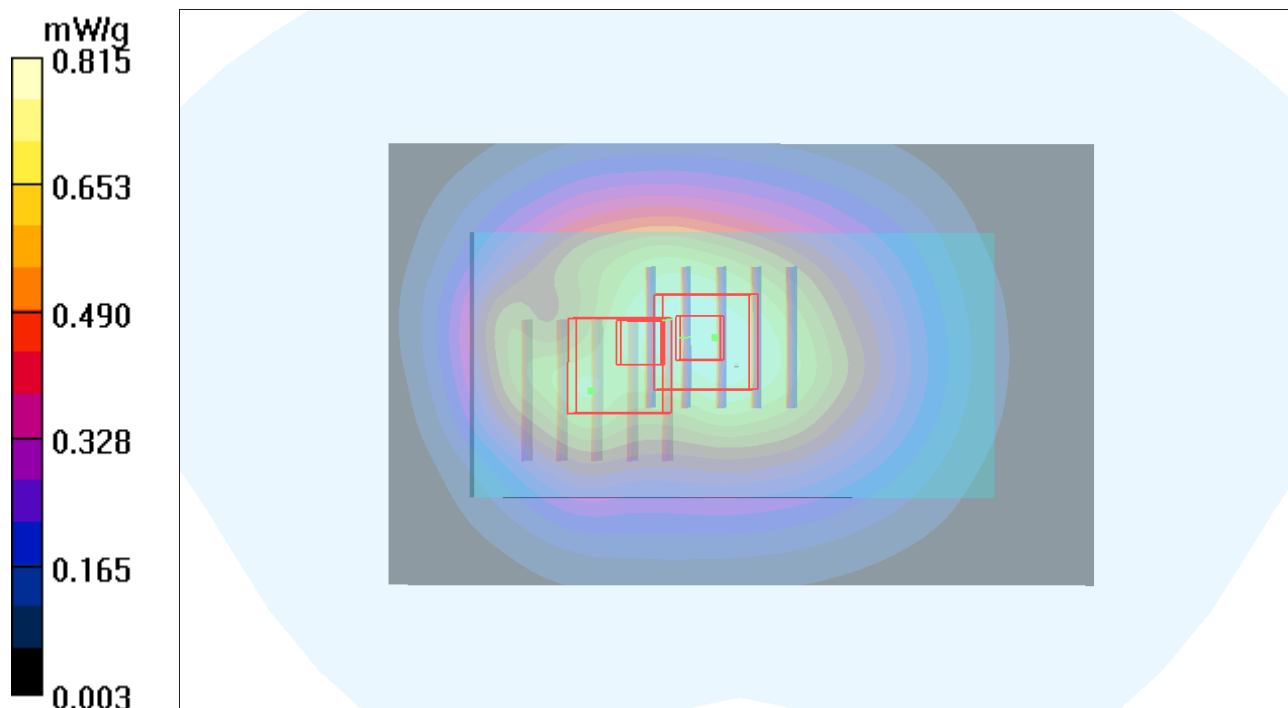
**Ch4233/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.890 W/kg

**SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.414 mW/g**

Maximum value of SAR (measured) = 0.785 mW/g



## P21 WCDMA V\_RMC12.2K\_Front Face\_1cm\_Ch4233\_Earphone

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.609 mW/g

**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 0.667 W/kg

**SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.392 mW/g**

Maximum value of SAR (measured) = 0.596 mW/g

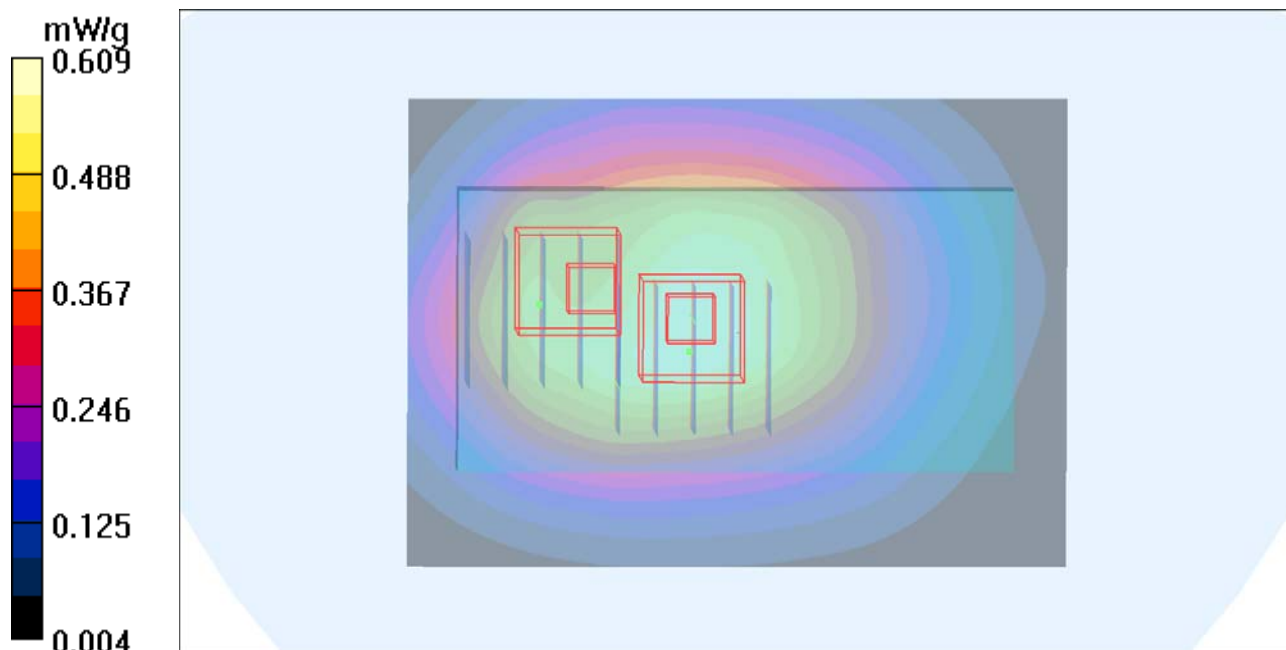
**Ch4233/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 0.642 W/kg

**SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.306 mW/g**

Maximum value of SAR (measured) = 0.549 mW/g



## P22 WCDMA V\_RMC12.2K\_Rear Face\_1cm\_Ch4233\_Earphone

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0402 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.9 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(10.47, 10.47, 10.47); Calibrated: 2012/02/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.736 mW/g

**Ch4233/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.758 W/kg

**SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.412 mW/g**

Maximum value of SAR (measured) = 0.667 mW/g

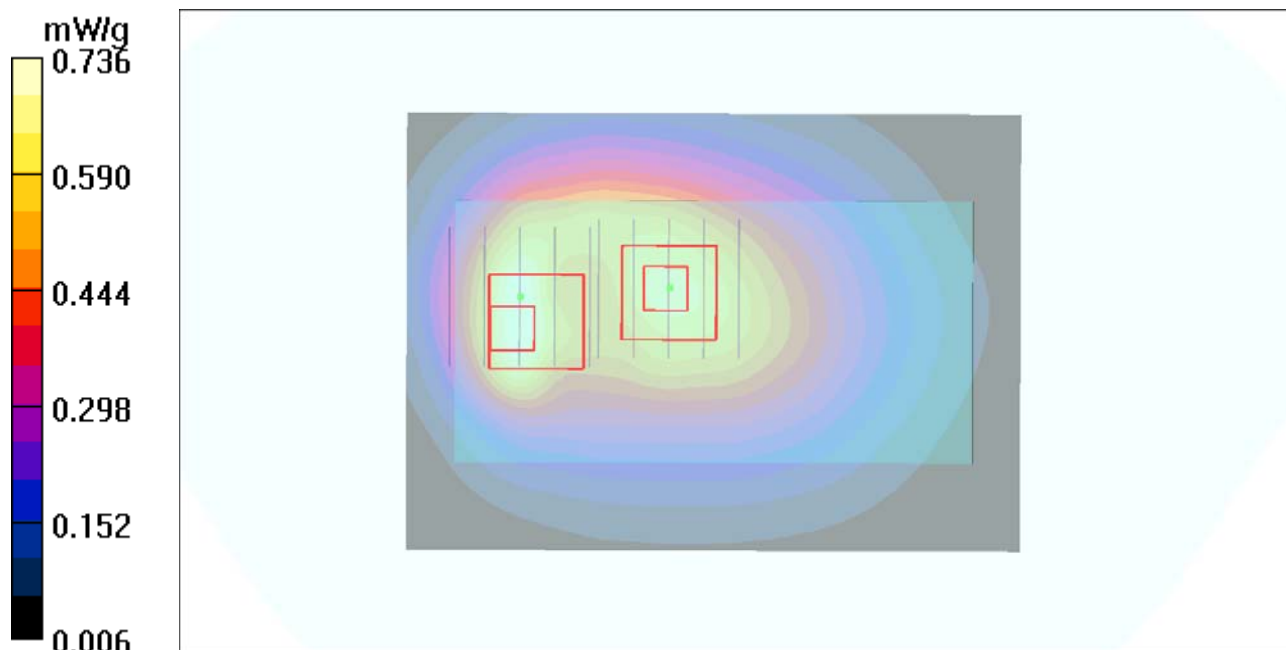
**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.803 W/kg

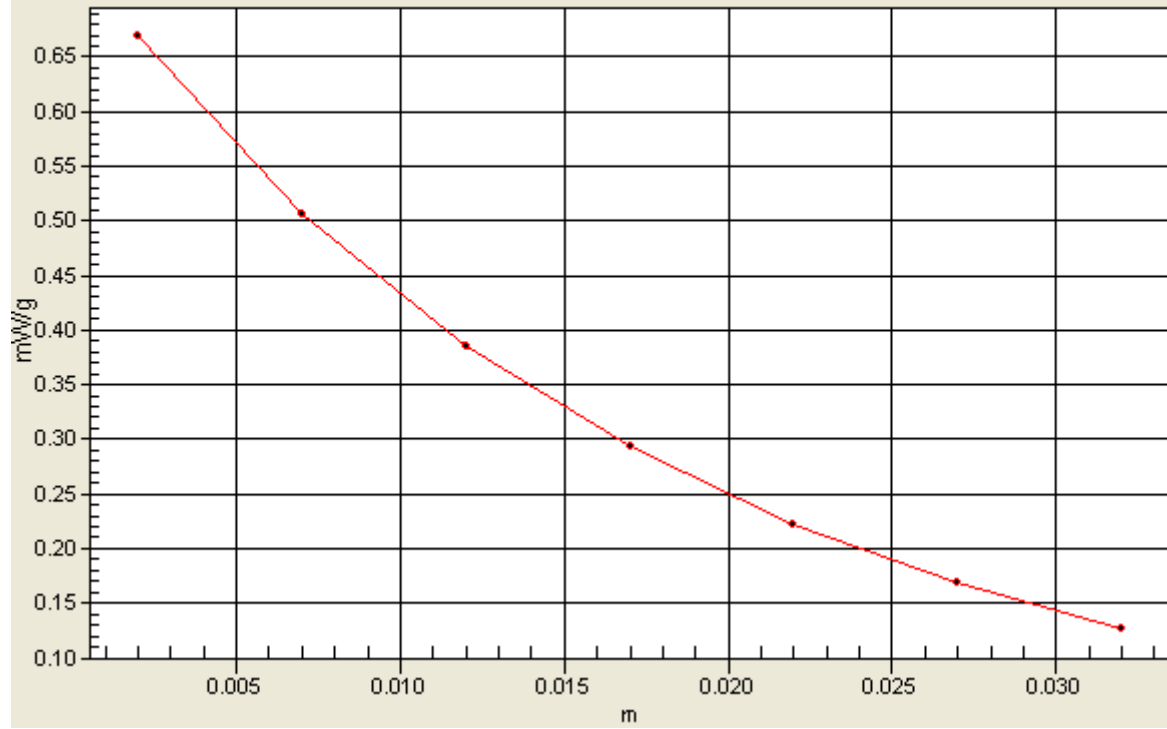
**SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.346 mW/g**

Maximum value of SAR (measured) = 0.669 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=2



### P78 WCDMA V\_RMC12.2k\_Rear Face\_1cm\_Ch4233\_Battery2\_Earphone

**DUT: 120321C23**

Communication System: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: B835\_0417 Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 21.2 °C; Liquid Temperature : 20.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3650; ConvF(9.12, 9.12, 9.12); Calibrated: 2011/10/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom\_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch4233/Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.630 mW/g

**Ch4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.867 W/kg

**SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.345 mW/g**

Maximum value of SAR (measured) = 0.720 mW/g

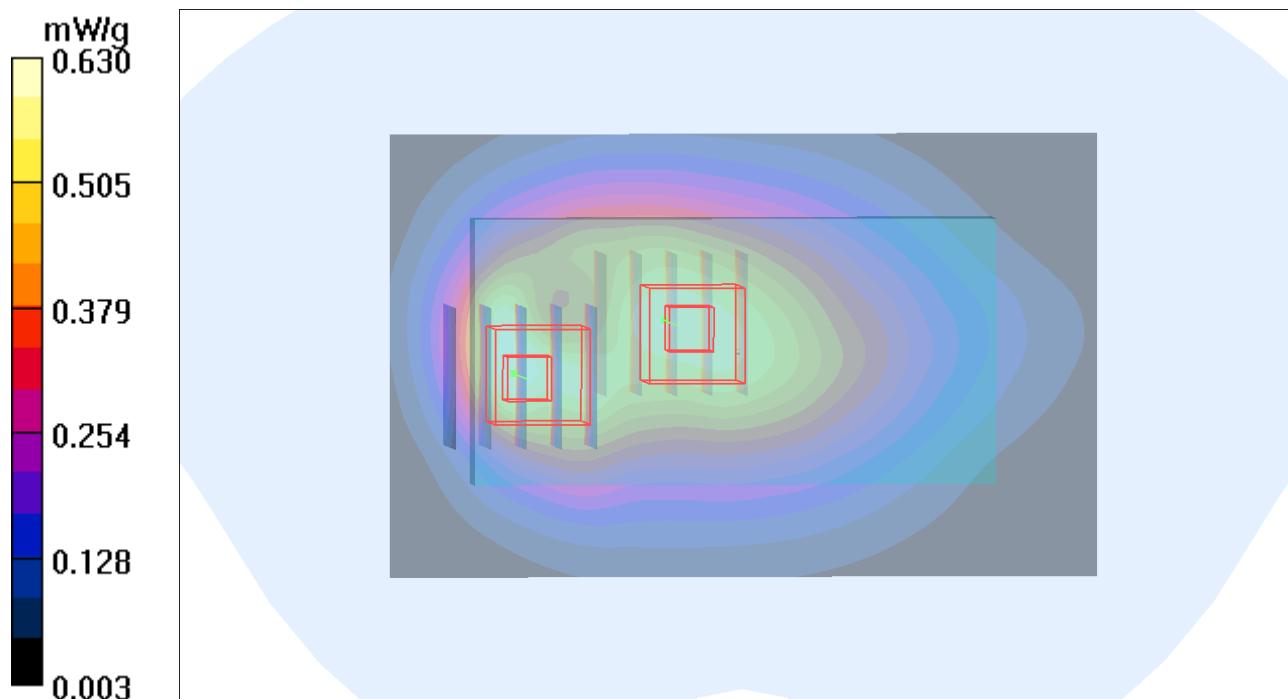
**Ch4233/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.653 W/kg

**SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.369 mW/g**

Maximum value of SAR (measured) = 0.582 mW/g





### P124 802.11b\_Front Face\_1cm\_Ch11

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.172 mW/g

**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.76 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.227 W/kg

**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.052 mW/g**

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

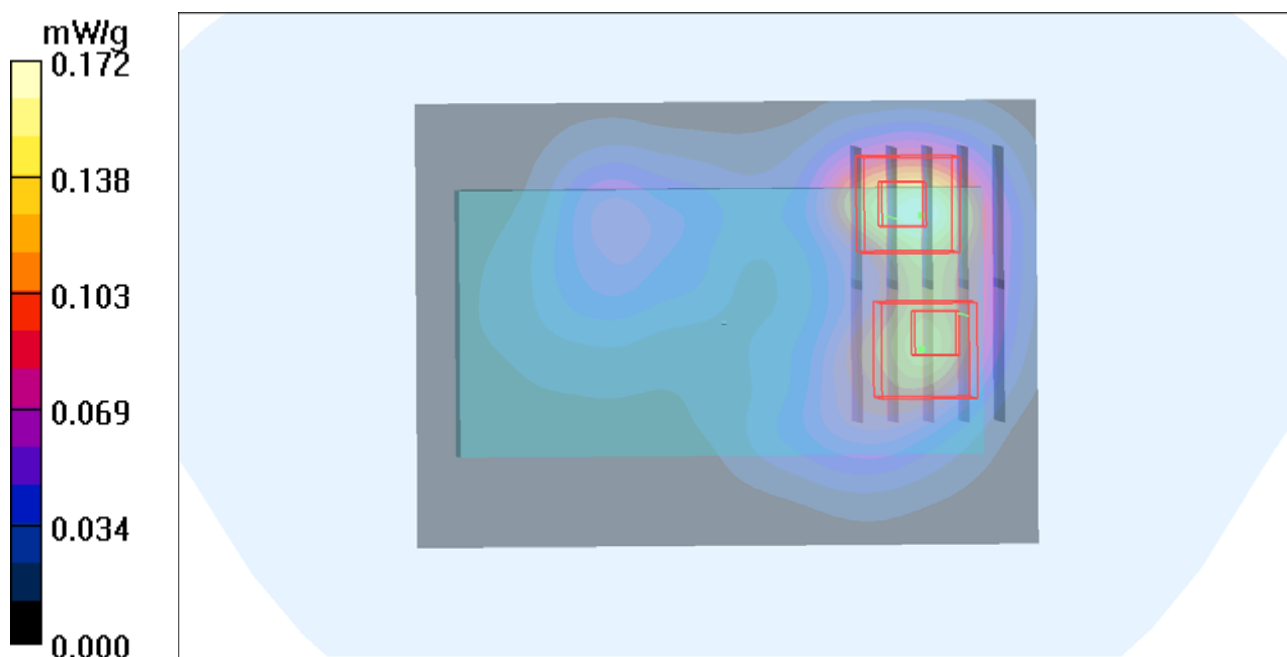
**Ch11/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.76 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.199 W/kg

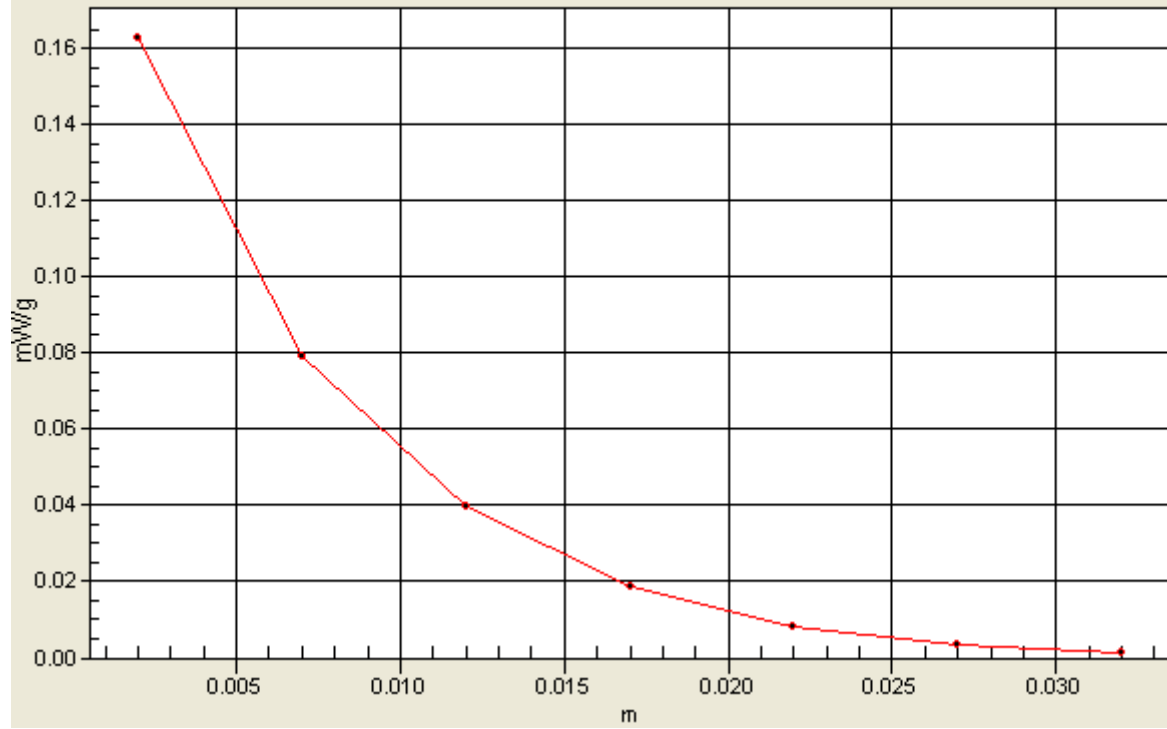
**SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.049 mW/g**

Maximum value of SAR (measured) = 0.137 mW/g



# 1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=2, Y=1



### P125 802.11b\_Rear Face\_1cm\_Ch11

#### DUT: 120321C23

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.1 °C

#### DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.087 mW/g

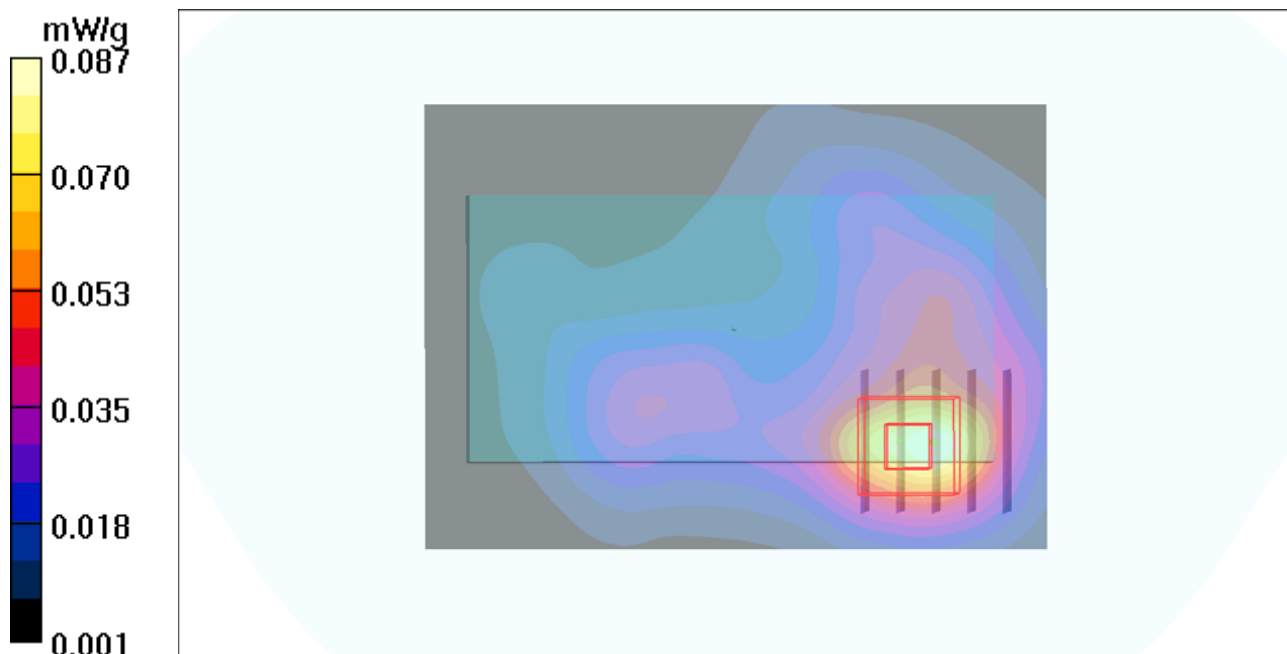
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.56 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.124 W/kg

**SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.087 mW/g



### P126 802.11b\_Left Side\_1cm\_Ch11

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (31x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.117 mW/g

**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.76 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 0.195 W/kg

**SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.139 mW/g

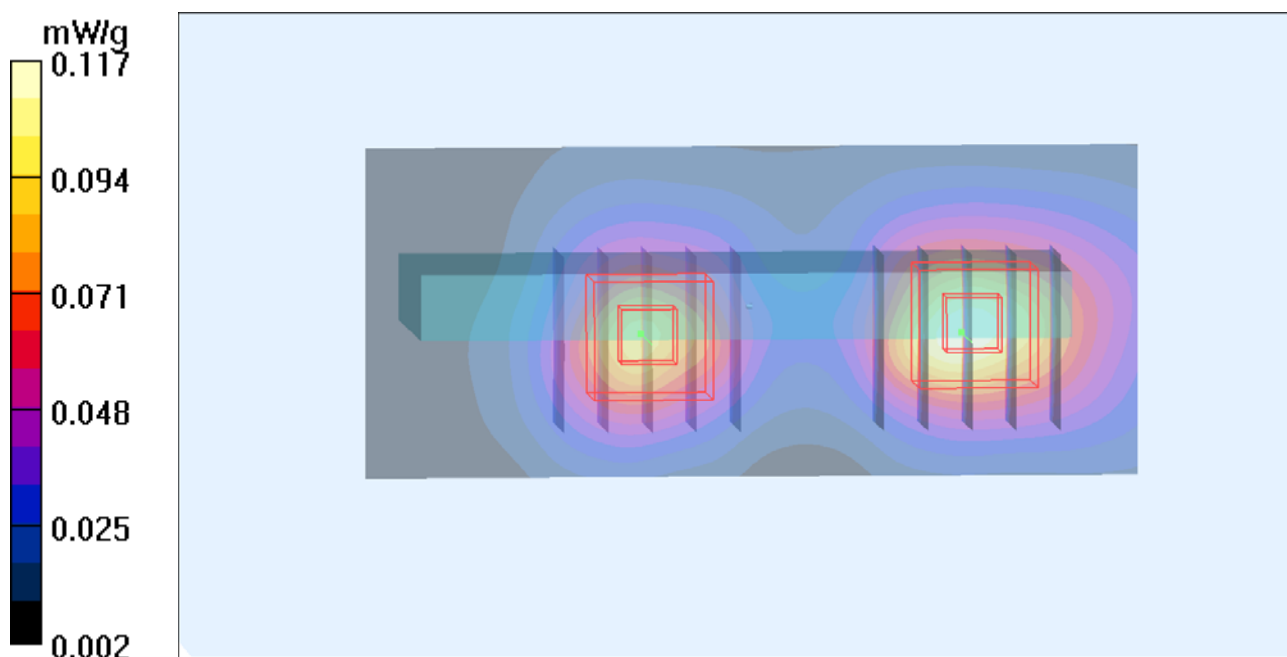
**Ch11/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.76 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 0.132 W/kg

**SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.034 mW/g**

Maximum value of SAR (measured) = 0.097 mW/g



### P127 802.11b\_Right Face\_1cm\_Ch11

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (31x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.020 mW/g

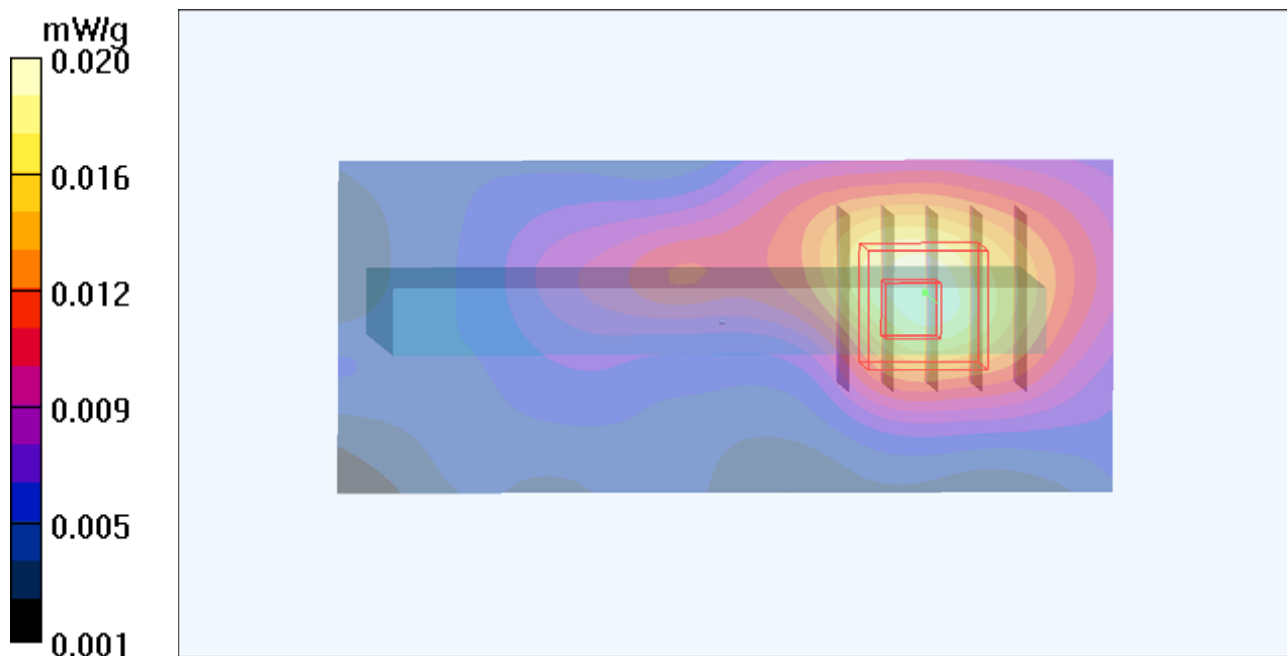
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.95 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.033 W/kg

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00648 mW/g**

Maximum value of SAR (measured) = 0.022 mW/g



## P128 802.11b\_Top Side\_1cm\_Ch11

### DUT: 120321C23

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (41x41x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.092 mW/g

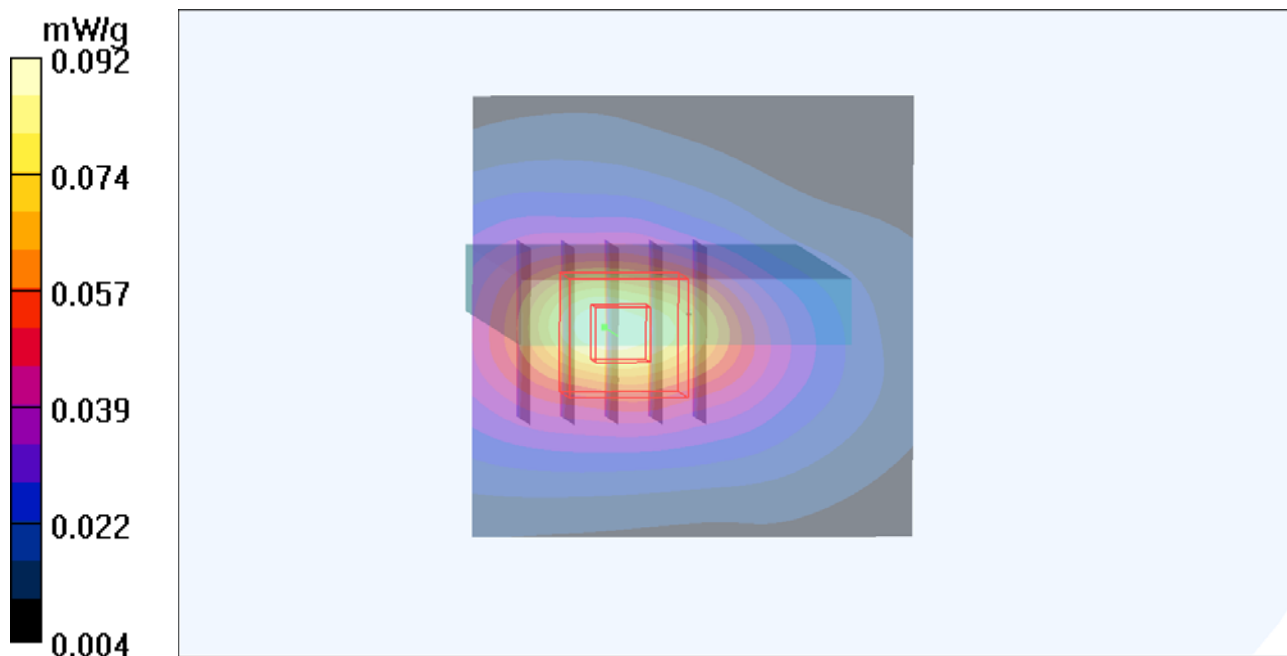
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.05 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.129 W/kg

**SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.033 mW/g**

Maximum value of SAR (measured) = 0.093 mW/g



## P133 802.11b\_Front Face\_1cm\_Ch11\_Battery2

### DUT: 120321C23

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0418 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.992$  mho/m;  $\epsilon_r = 50.908$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C ; Liquid Temperature : 20.8 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(7.8, 7.8, 7.8); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM; Serial: TP-1485
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.153 mW/g

**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.489 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 0.222 mW/g

**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.052 mW/g**

Maximum value of SAR (measured) = 0.162 mW/g

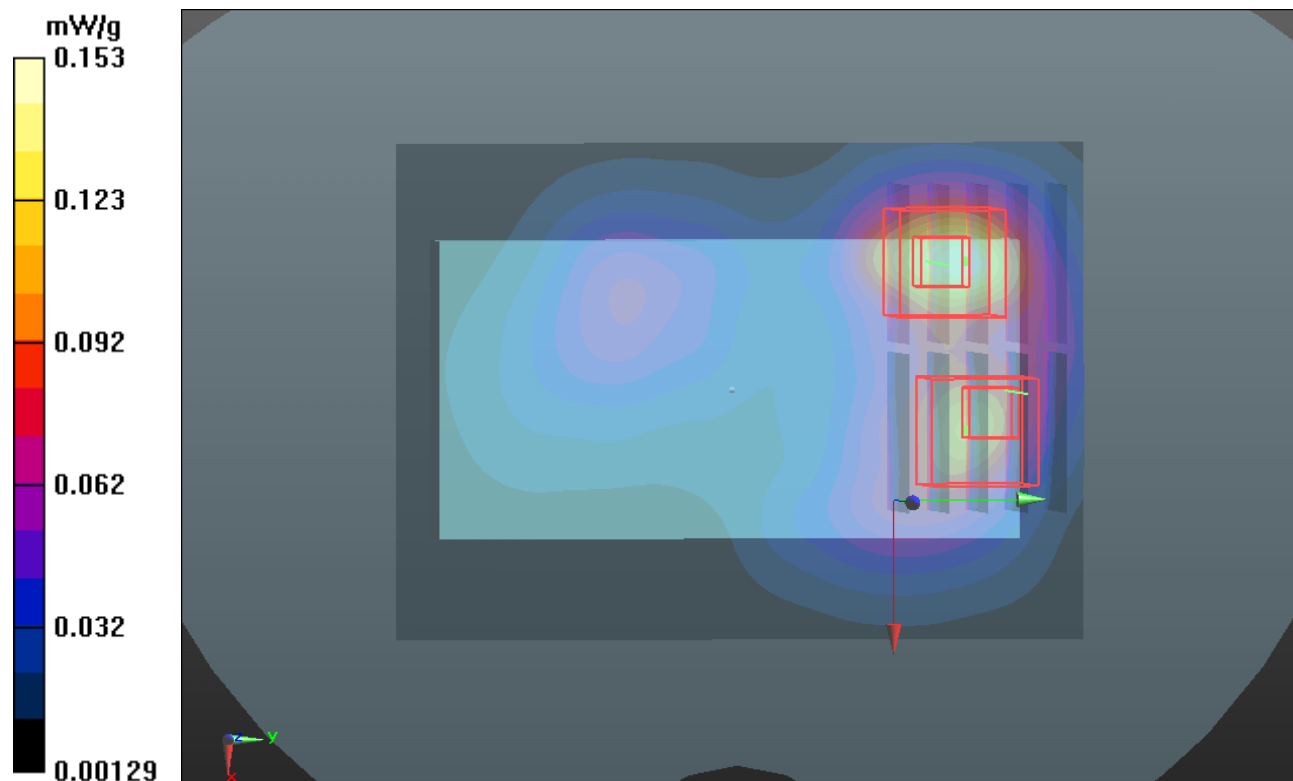
**Ch11/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.489 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 0.159 mW/g

**SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.042 mW/g**

Maximum value of SAR (measured) = 0.116 mW/g



### P130 802.11b\_Front Face\_1cm\_Ch11\_Earphone

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.147 mW/g

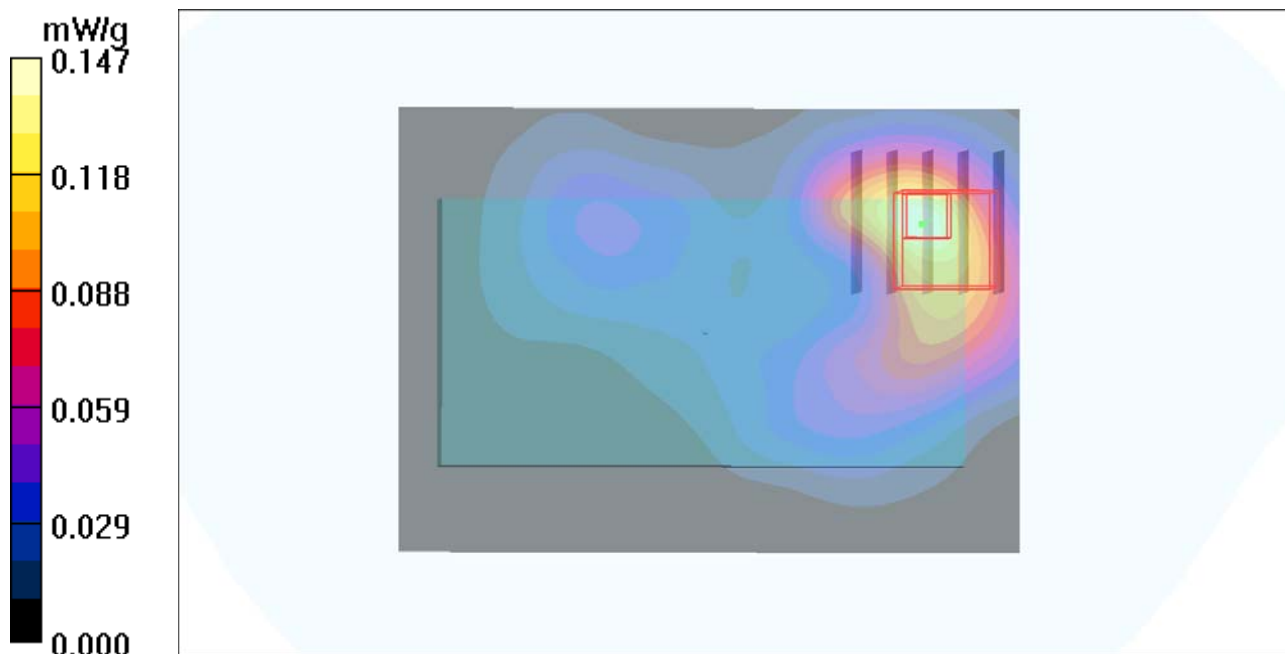
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.01 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.046 mW/g**

Maximum value of SAR (measured) = 0.138 mW/g





### P131 802.11b\_Rear Face\_1cm\_Ch11\_Earphone

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0409 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.1 °C ; Liquid Temperature : 21.1 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn905; Calibrated: 2011/06/24
- Phantom: SAM Phantom\_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.084 mW/g

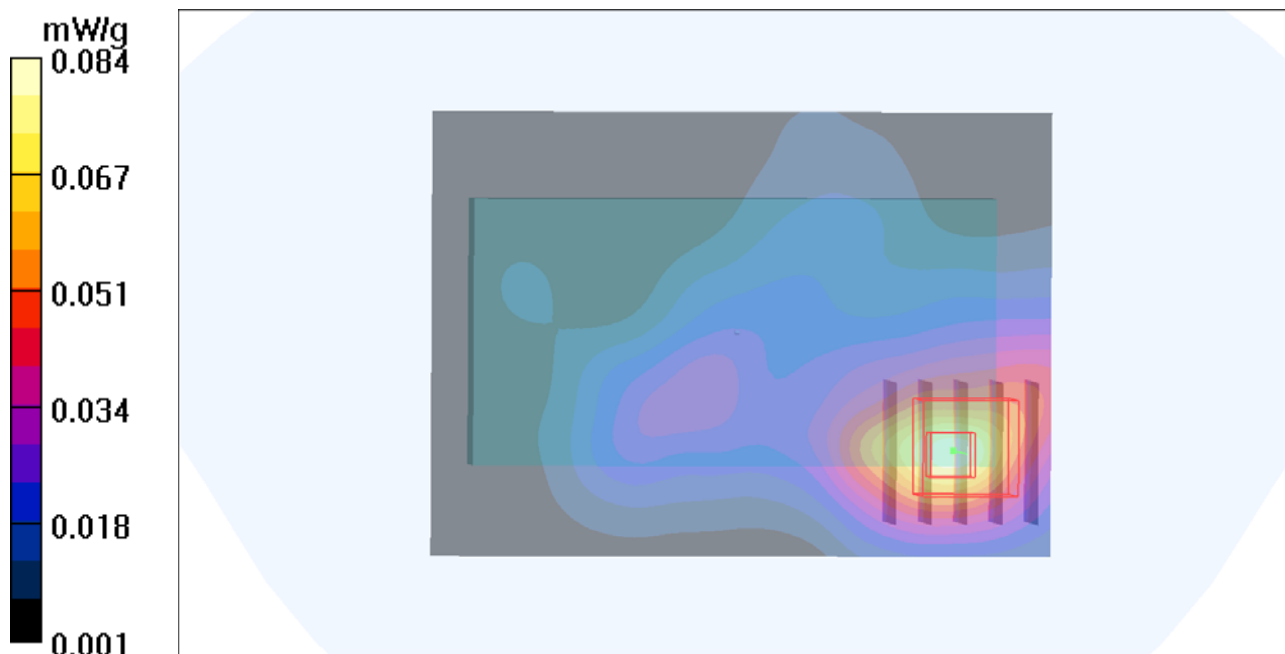
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.33 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.111 W/kg

**SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.027 mW/g**

Maximum value of SAR (measured) = 0.080 mW/g



### P134 802.11b\_Front Face\_1cm\_Ch11\_Battery2\_Earphone

**DUT: 120321C23**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: B2450\_0418 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.992$  mho/m;  $\epsilon_r = 50.908$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 21.6 °C; Liquid Temperature : 20.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3590; ConvF(7.8, 7.8, 7.8); Calibrated: 2012/02/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2011/08/29
- Phantom: SAM Phantom\_Front; Type: SAM; Serial: TP-1485
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

**Ch11/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

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

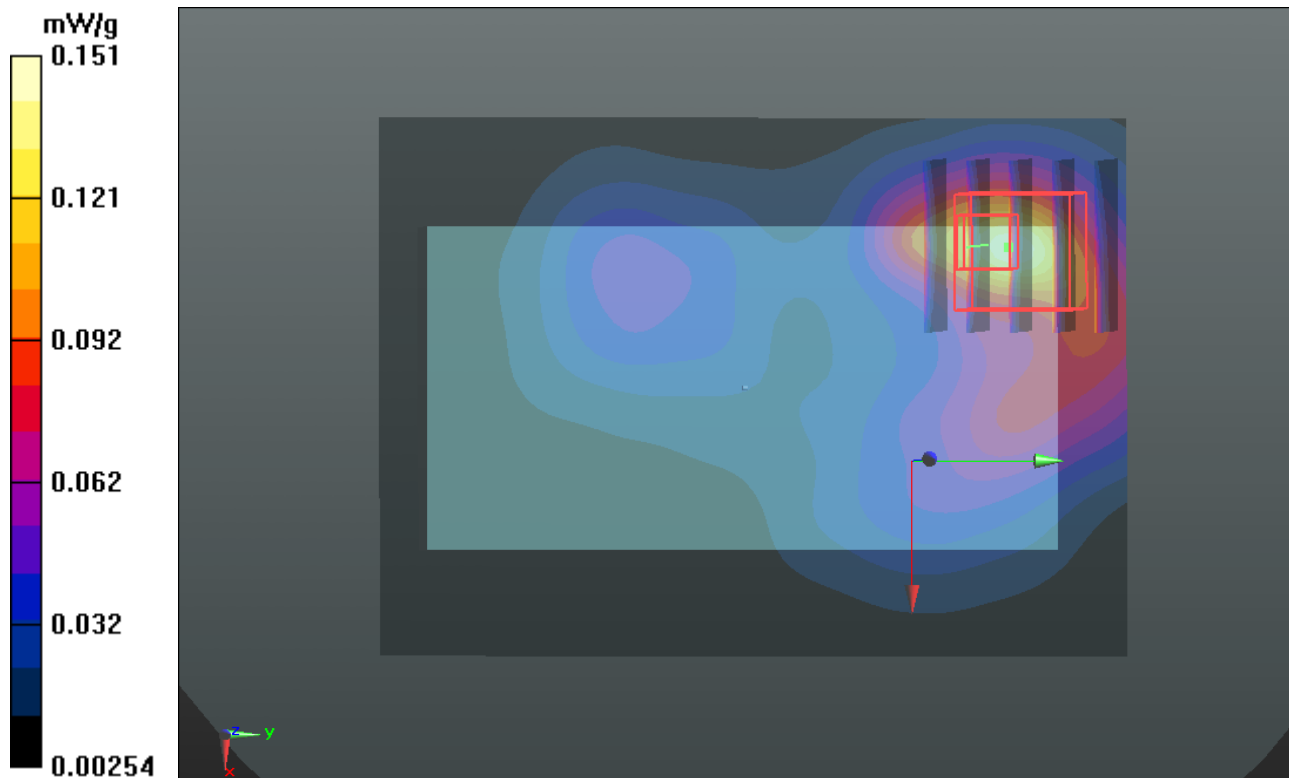
**Ch11/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.020 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.215 mW/g

**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.050 mW/g**

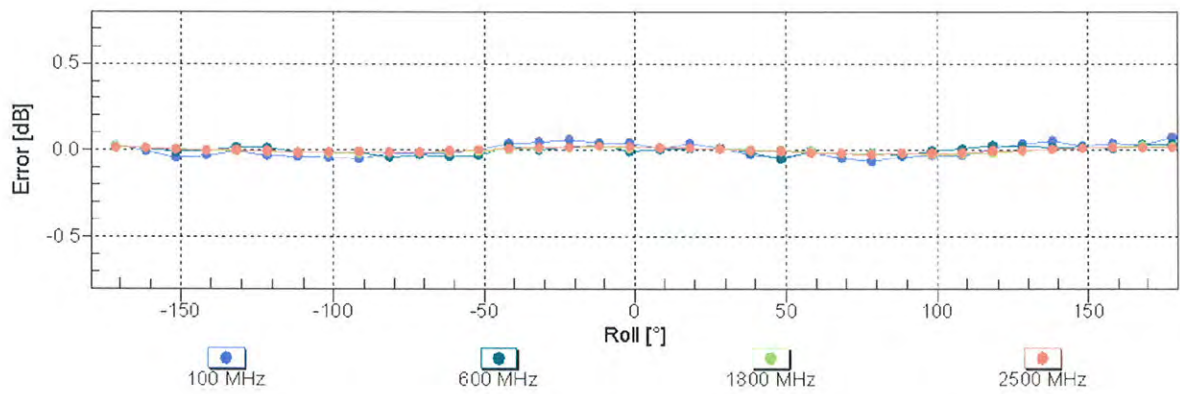
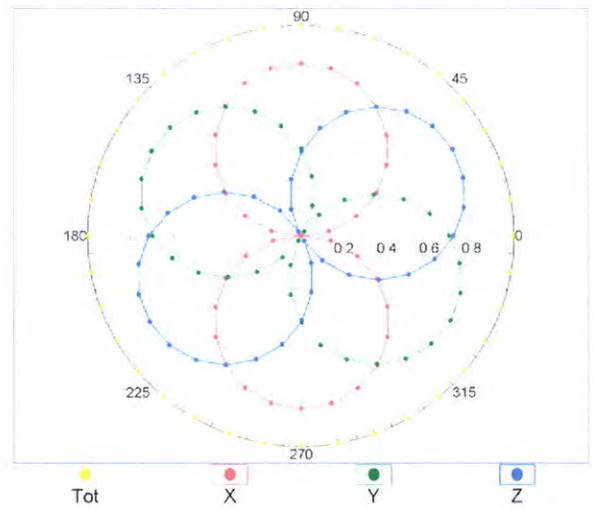
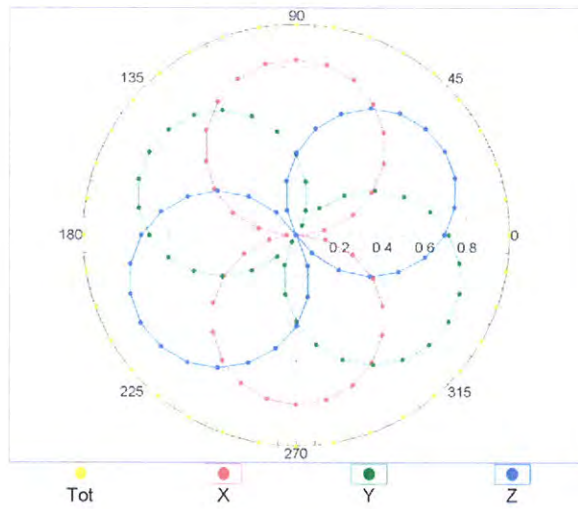
Maximum value of SAR (measured) = 0.155 mW/g



### Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$

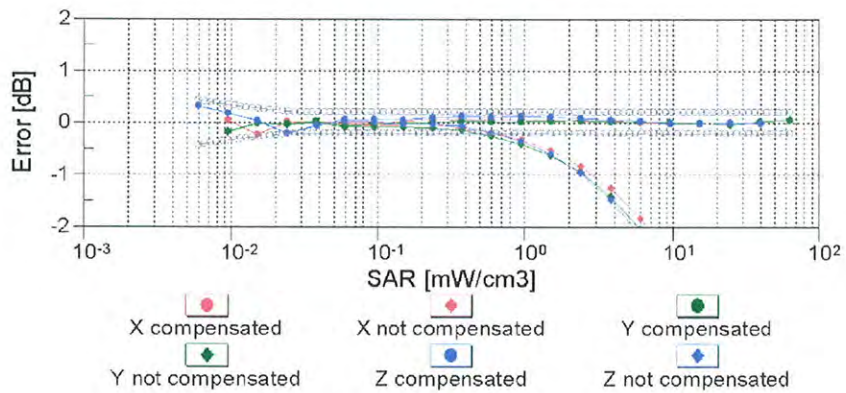
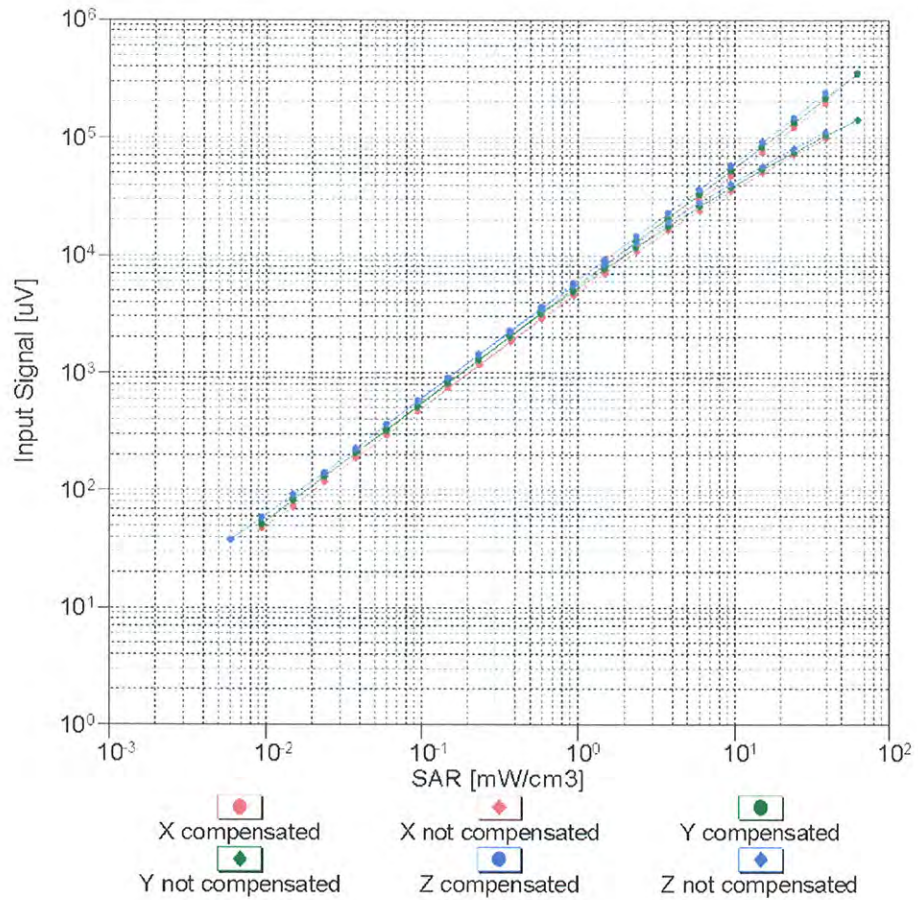
f=600 MHz,TEM

f=1800 MHz,R22



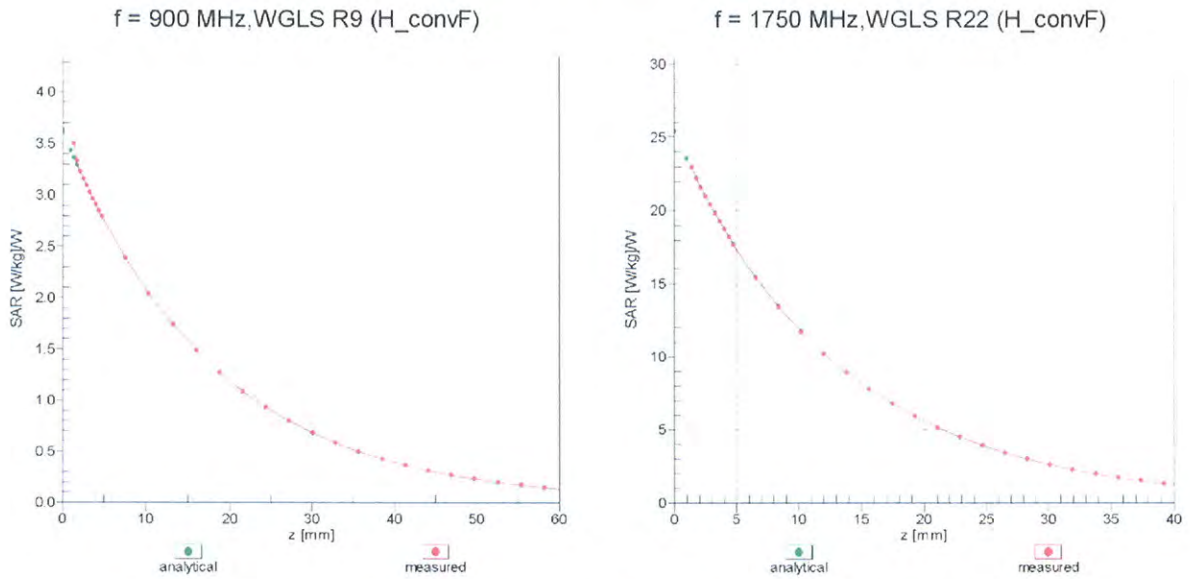
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  (k=2)

## Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f = 900 MHz)

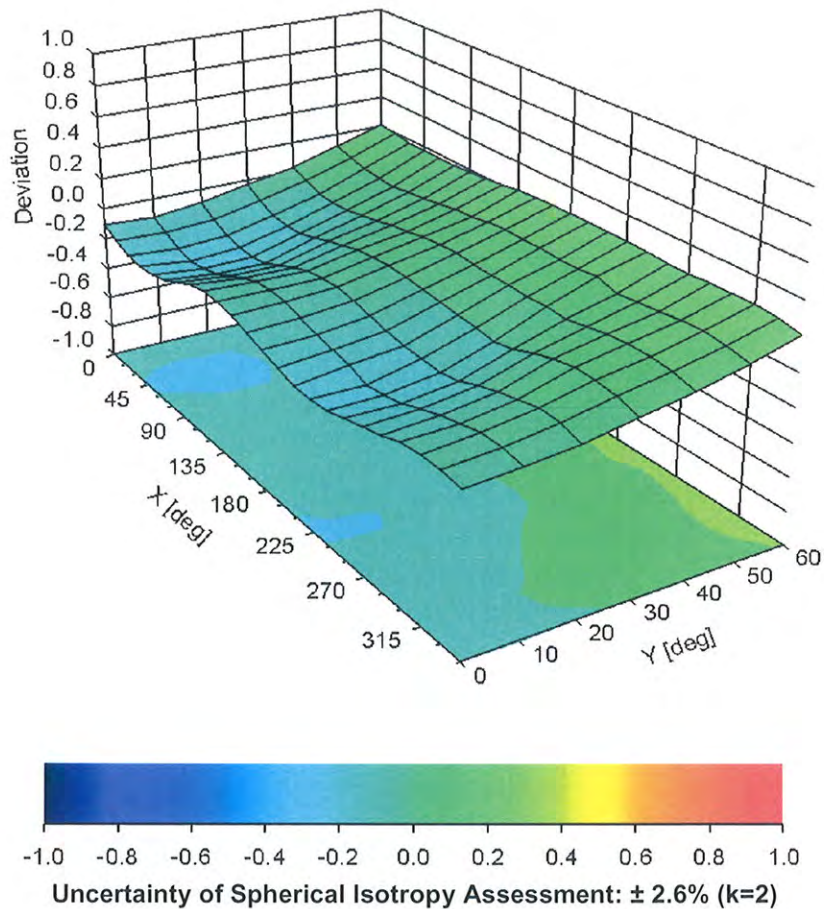


**Uncertainty of Linearity Assessment: ± 0.6% (k=2)**

# Conversion Factor Assessment



## Deviation from Isotropy in Liquid Error ( $\phi, \theta$ ), f = 900 MHz



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3800

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm