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**Appendix for the Report**  
**Dosimetric Assessment of the**  
**ICONII from Option**  
**(FCC ID: NCMOGI0205)**  
**According to the FCC Requirements**  
**SAR Distribution Plots**

April 18, 2007  
**IMST GmbH**  
**Carl-Friedrich-Gauß-Str. 2**  
**D-47475 Kamp-Lintfort**

Customer  
7layers AG  
Borsigstrasse 11  
D-40880 Ratingen

The test results only relate to the items tested.  
This report shall not be reproduced except in full without the written  
approval of the testing laboratory.

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## 1 SAR Distribution Plots, GPRS 850 Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [069\\_bahm\\_1\\_latitude.da4](#)

DUT: Option; Type: ICON II lite; Serial: 004401440440069

Program Name: Body Worn

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.66  
 Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.94, 9.94, 9.94); Calibrated: 27.09.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Worn/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 17.5 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.652 W/kg

**SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.489 mW/g

**Body Worn/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.720 W/kg

**SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.249 mW/g**

Maximum value of SAR (measured) = 0.512 mW/g

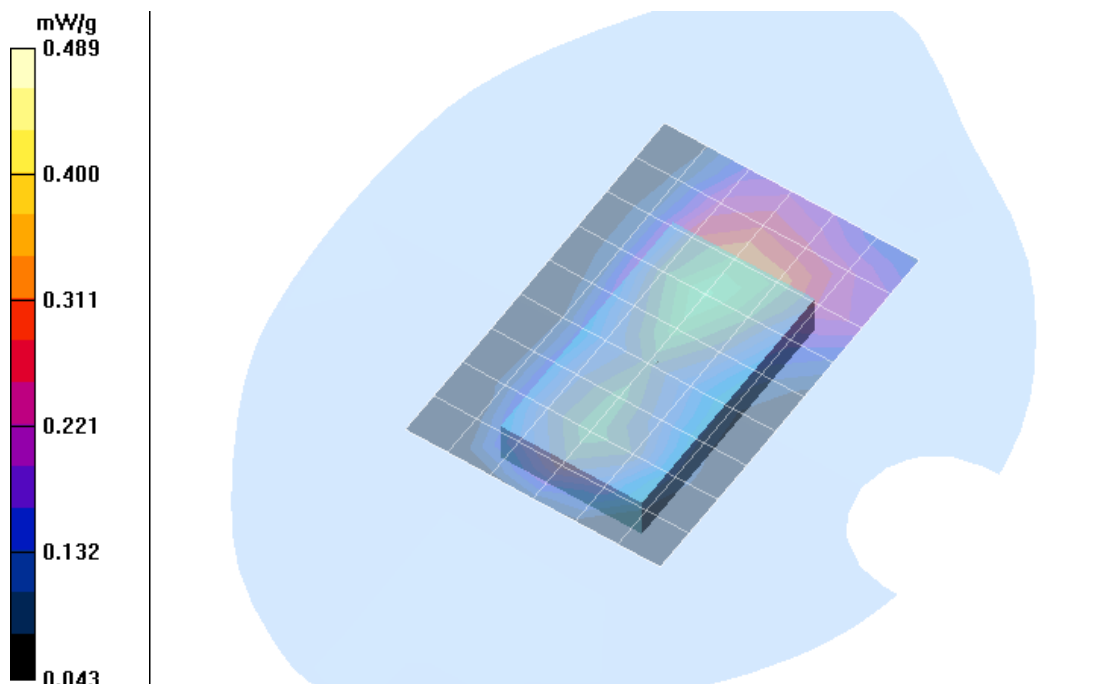


Fig. 1: SAR distribution for GPRS 850 (Class 11), channel 190, Lap Held Position (DELL Latitude C810, April 16, 2007; Ambient Temperature: 22.7°C; Liquid Temperature: 21.4°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [069\\_bahm\\_1\\_acer.da4](#)

DUT: Option; Type: ICON II lite; Serial: 004401440440069

Program Name: Body Worn

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.66

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.94, 9.94, 9.94); Calibrated: 27.09.2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Worn/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.802 mW/g

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

Reference Value = 16.8 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.383 mW/g**

Maximum value of SAR (measured) = 0.782 mW/g

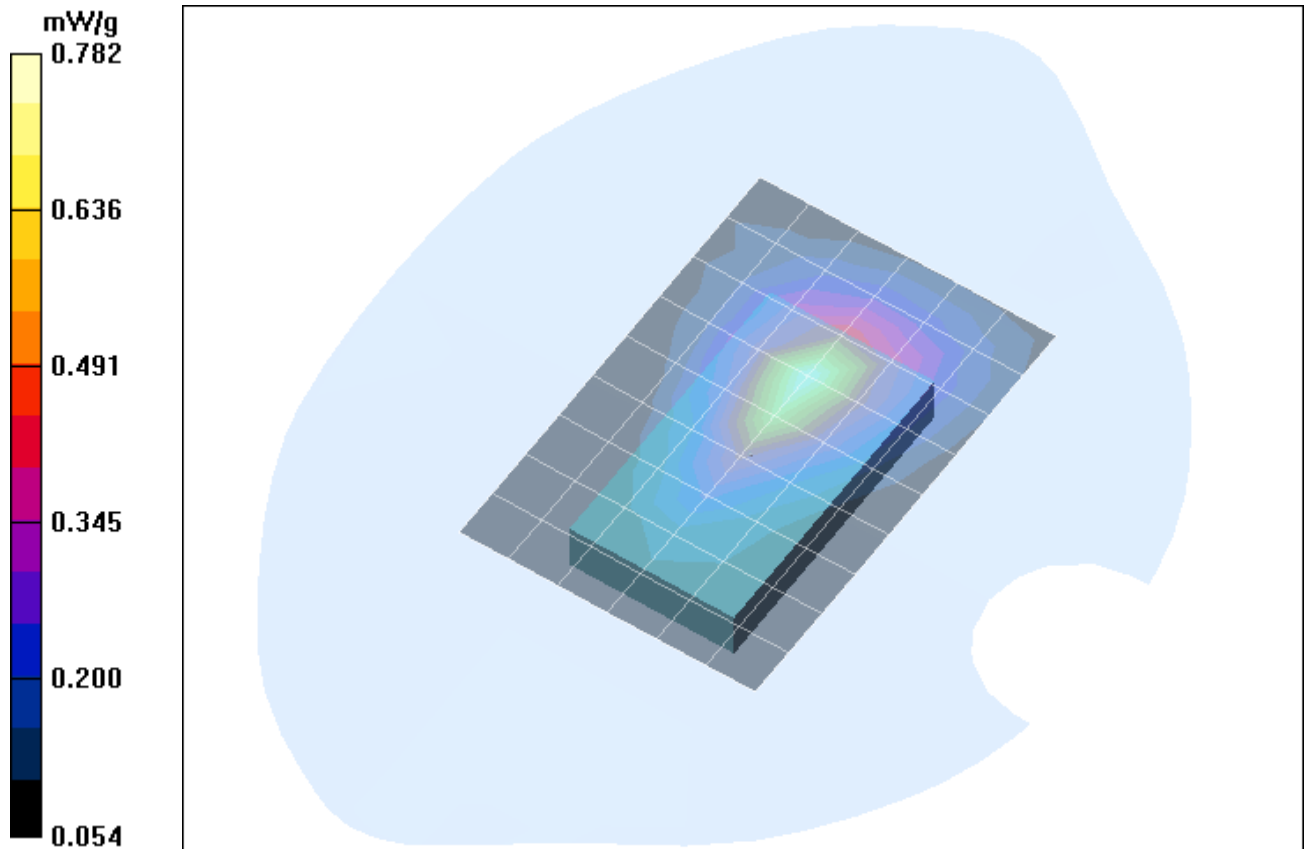


Fig. 2: SAR distribution for GPRS 850 (Class 11), channel 190, Lap Held Position (Acer TravelMate 4283WLMi, April 16, 2007; Ambient Temperature: 22.7°C; Liquid Temperature: 21.4°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [069\\_bahm\\_1\\_inspiron.da4](#)

DUT: Option; Type: ICON II lite; Serial: 004401440440069

Program Name: Body Worn

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.66

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.94, 9.94, 9.94); Calibrated: 27.09.2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Worn/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.378 mW/g

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

Reference Value = 14.1 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 0.515 W/kg

**SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.244 mW/g**

Maximum value of SAR (measured) = 0.389 mW/g

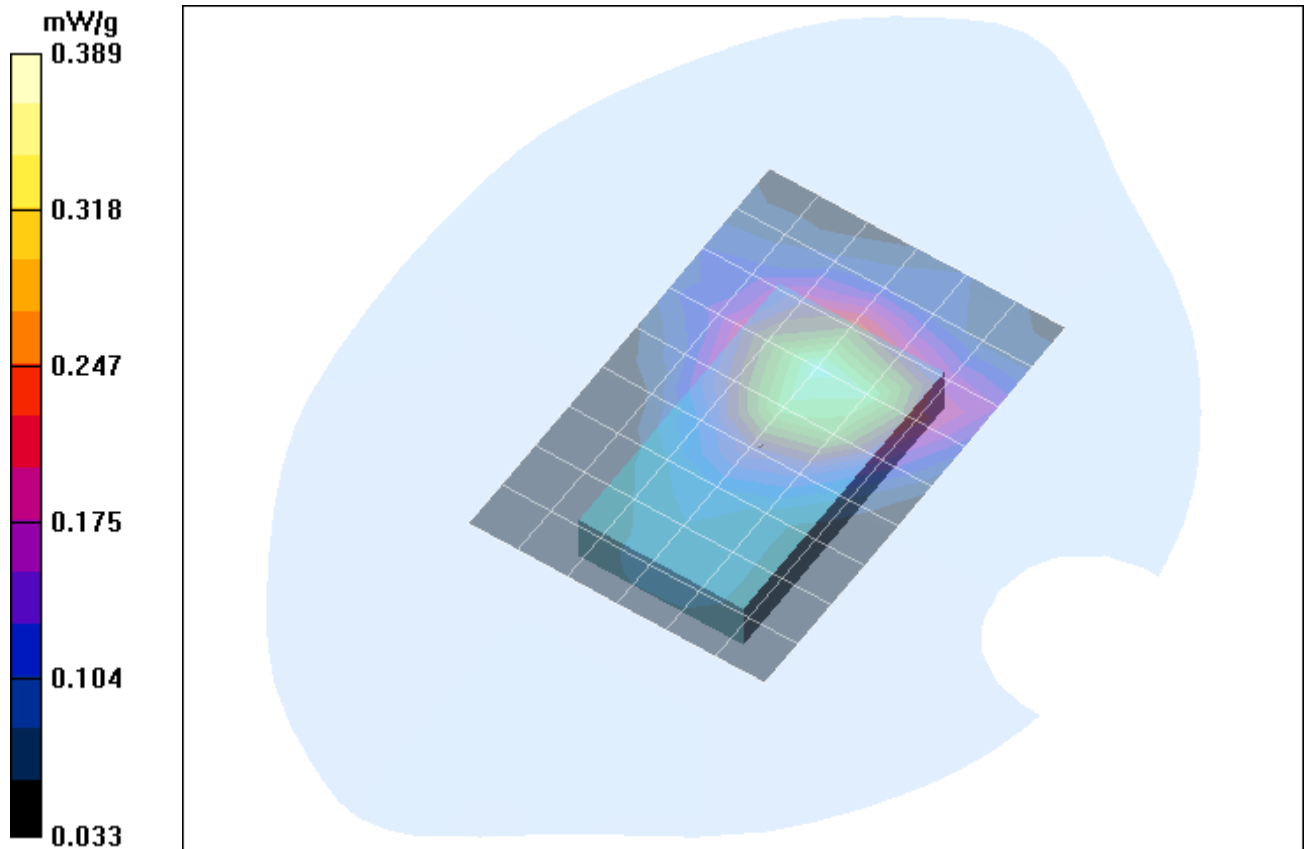


Fig. 3: SAR distribution for GPRS 850 (Class 11), channel 190, Lap Held Position (Dell Inspiron 9100, April 16, 2007; Ambient Temperature: 22.7°C; Liquid Temperature: 21.4°C).

## 2 SAR Distribution Plots, GPRS 1900 Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [069\\_yphl\\_1\\_latitude.da4](#)

DUT: Option; Type: ICON II lite; Serial: 004401440440069

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Worn/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.889 mW/g

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

Reference Value = 18.6 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 1.86 W/kg

**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.600 mW/g**

Maximum value of SAR (measured) = 1.47 mW/g

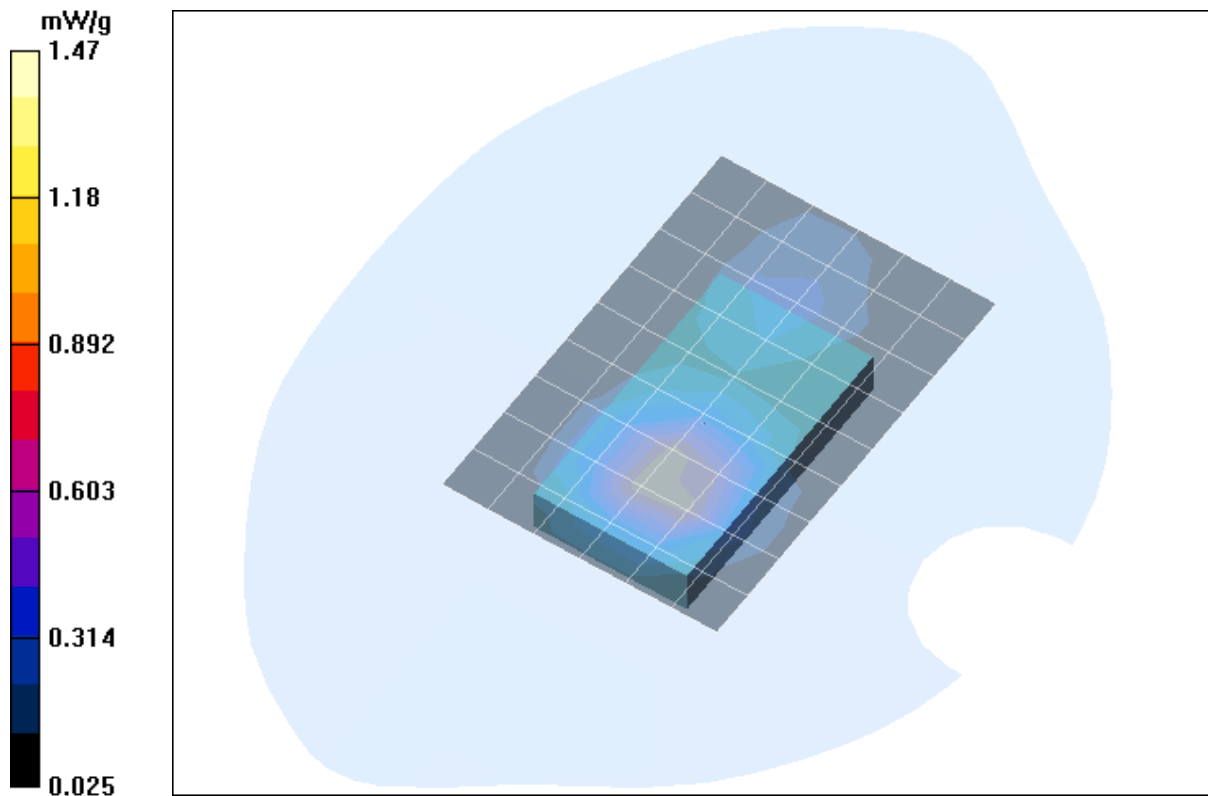


Fig. 4: SAR distribution for GPRS 1900 (Class 12), channel 512, Lap Held Position (DELL Latitude C810, April 17, 2007; Ambient Temperature: 22.5° C; Liquid Temperature: 21.4 C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [069\\_yphm\\_1\\_acer.da4](#)

DUT: Option; Type: ICON II lite; Serial: 004401440440069

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:2

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Worn/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 19.8 V/m; Power Drift = -0.197 dB

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.765 mW/g; SAR(10 g) = 0.414 mW/g**

Maximum value of SAR (measured) = 1.12 mW/g

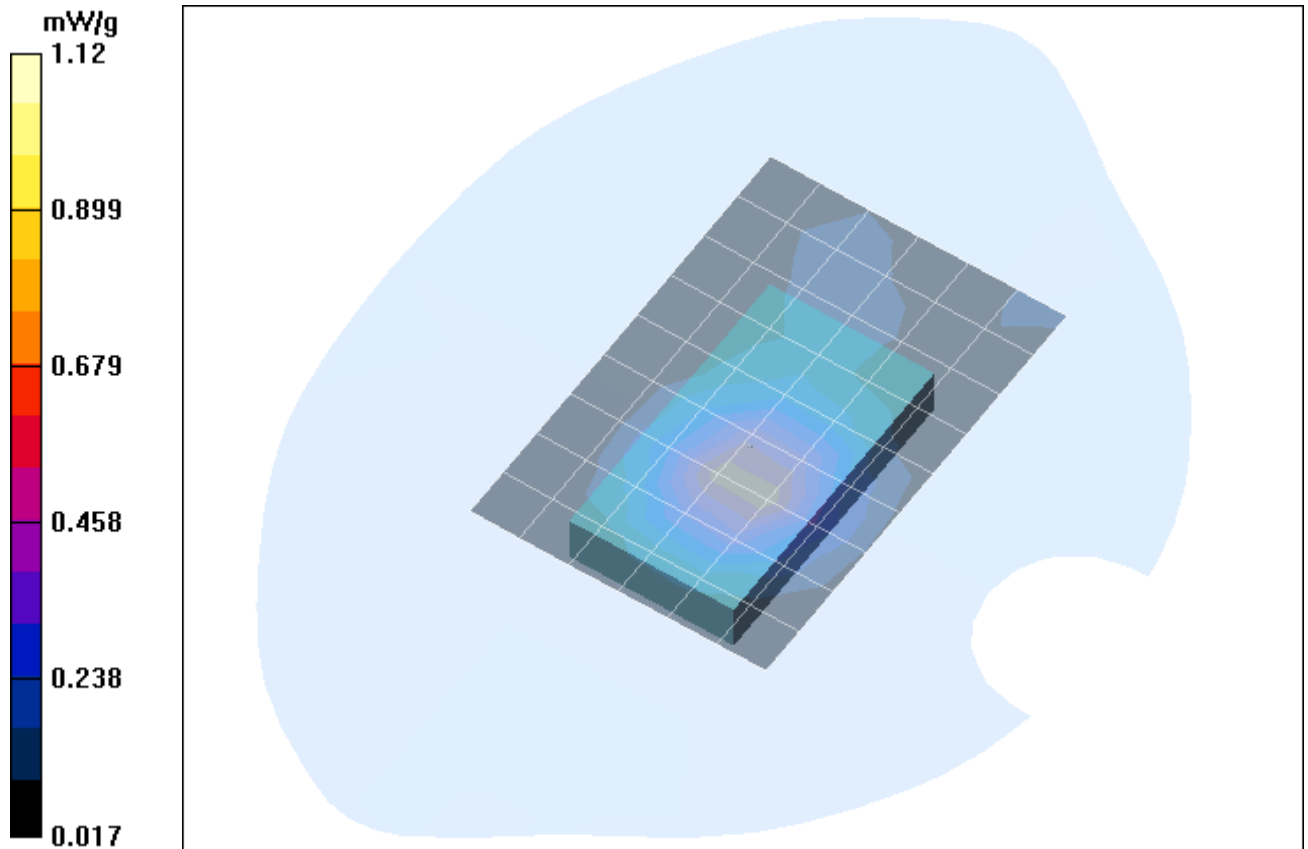


Fig. 5: SAR distribution for GPRS 1900 (Class 12), channel 661, Lap Held Position (Acer TravelMate 4283WLMi, April 17, 2007; Ambient Temperature: 22.5° C; Liquid Temperature: 21.4 C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [069\\_yphm\\_1\\_inspiron.da4](#)

DUT: Option; Type: ICON II lite; Serial: 004401440440069

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 27.09.2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn631; Calibrated: 11.07.2006

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Worn/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.777 mW/g

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

Reference Value = 14.4 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.753 mW/g; SAR(10 g) = 0.452 mW/g**

Maximum value of SAR (measured) = 0.817 mW/g

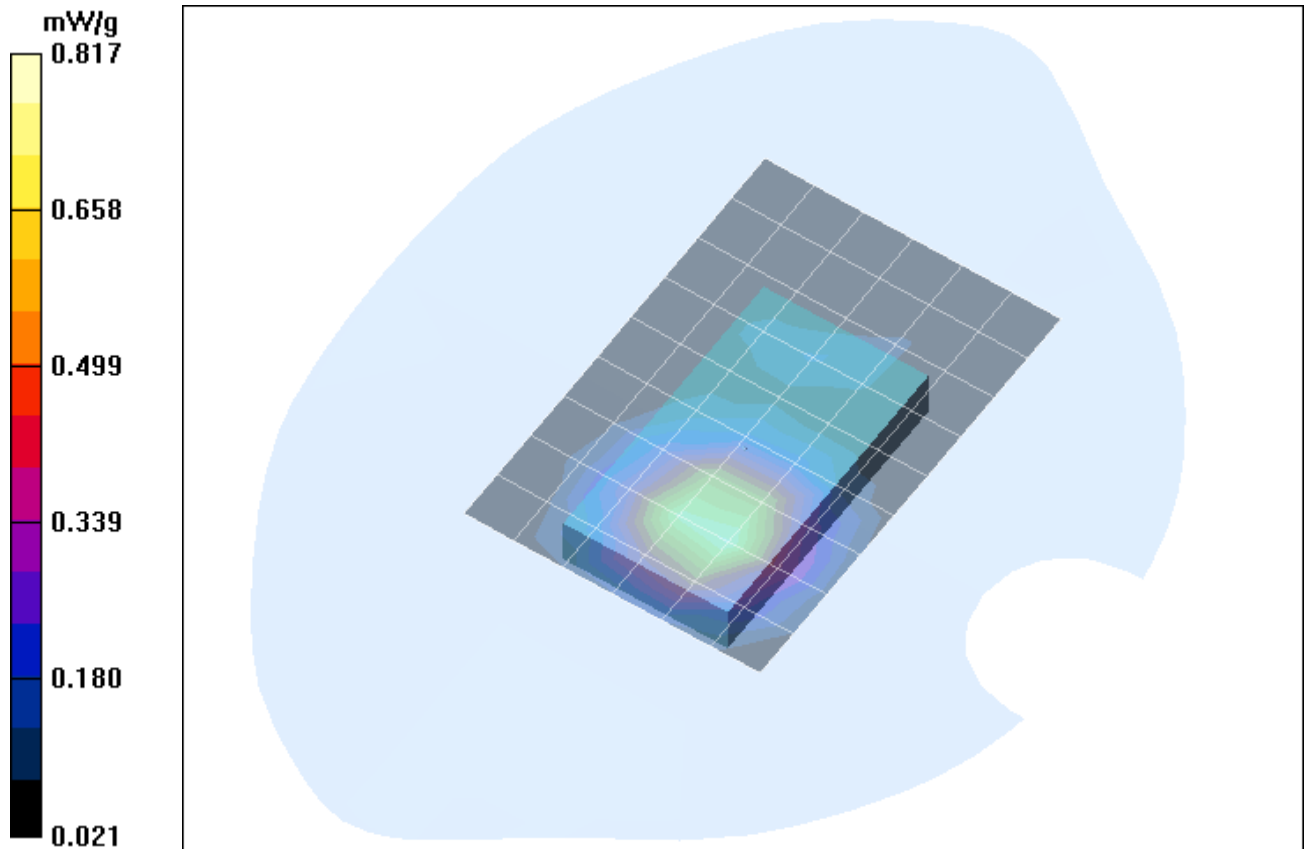


Fig. 6: SAR distribution for GPRS 1900 (Class 12), channel 661, Lap Held Position (Dell Inspiron 9100, April 17, 2007; Ambient Temperature: 22.5° C; Liquid Temperature: 21.4 C).



### 3 SAR z-axis scans (Validation)

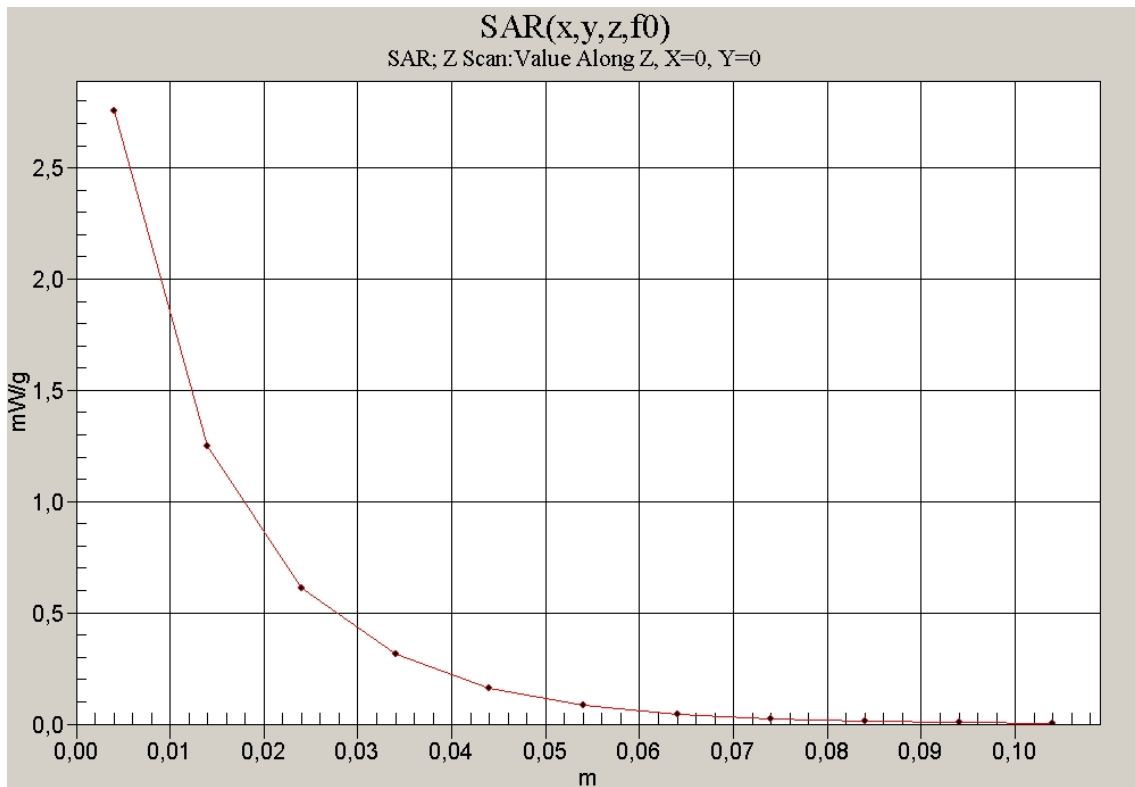


Fig. 7: SAR versus liquid depth, 835 MHz (GPRS 850), body (April 16, 2007; Ambient Temperature: 21.6° C; Liquid Temperature : 21.3° C).

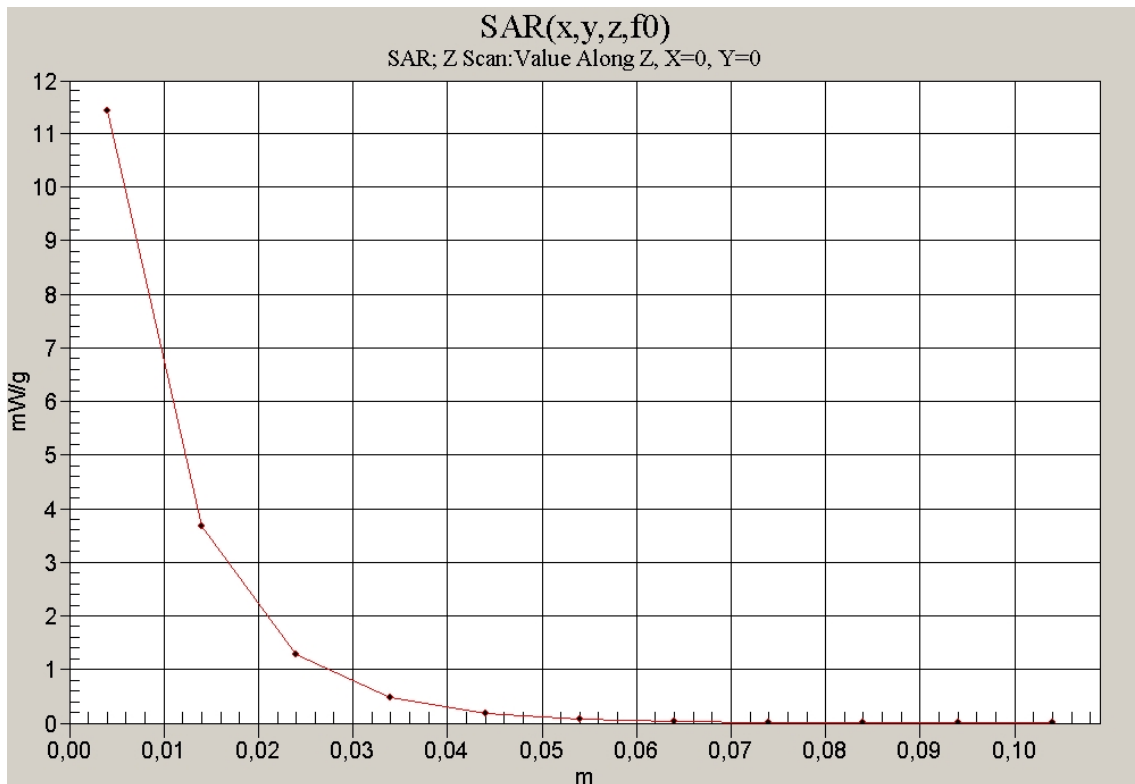


Fig. 8: SAR versus liquid depth, 1900 MHz (GPRS 1900), body (April 17, 2007; Ambient Temperature: 22.7° C; Liquid Temperature : 21.4° C).

#### 4 SAR z-axis scans (Measurements)

The following pictures show the plots of SAR versus liquid depth for the worst case values.

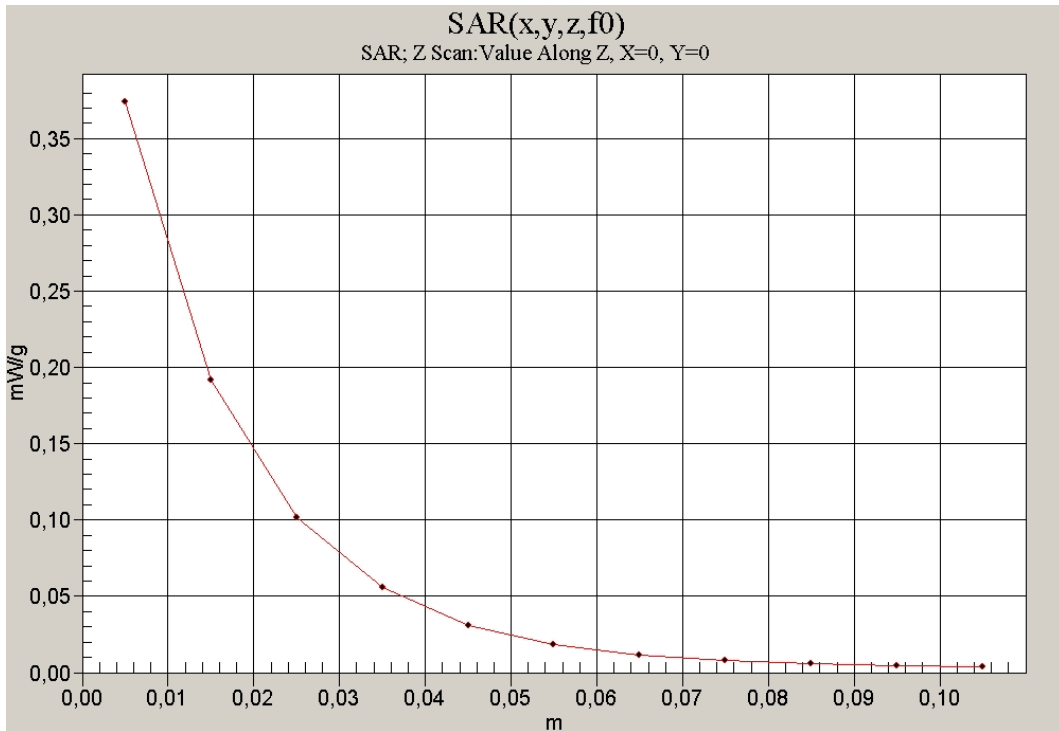


Fig. 9: SAR versus liquid depth, body: GPRS 850, channel 190 (Acer TravelMate 4283WLMi, April 16, 2007; Ambient Temperature: 22.7° C; Liquid Temperature: 21.4° C).

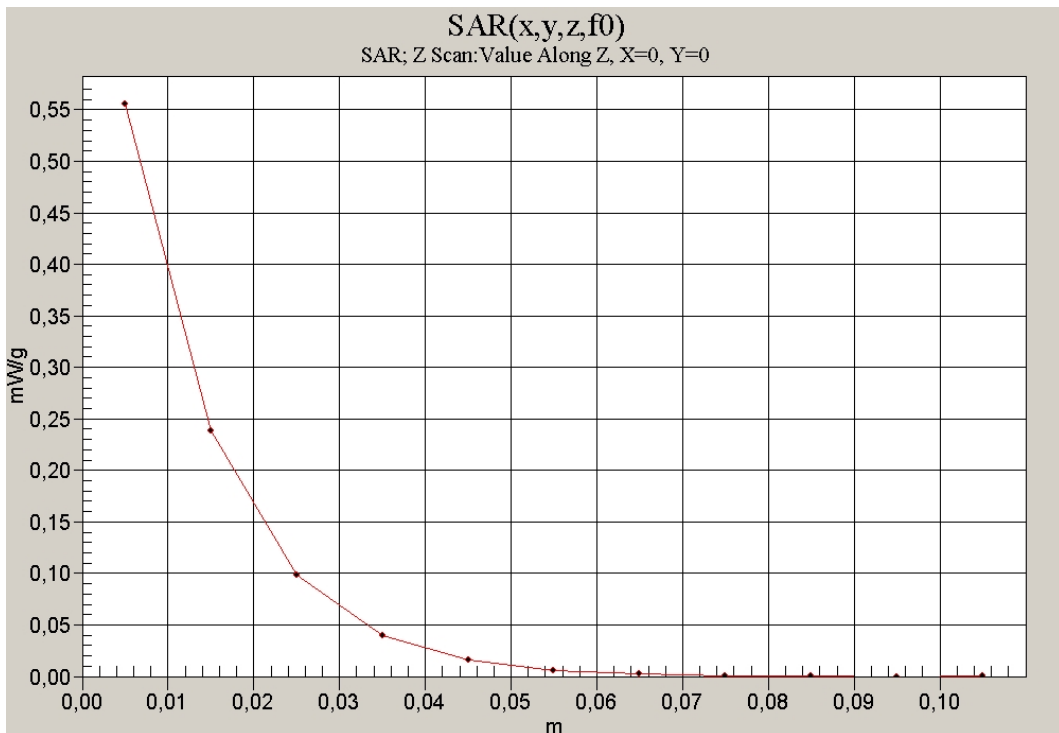


Fig. 10: SAR versus liquid depth, body: GPRS 1900, channel 512 (Dell Latitude C810, April 17, 2007; Ambient Temperature: 22.5° C; Liquid Temperature: 21.4° C).