# Appendix for the Report

# Dosimetric Assessment of the Portable Device CE5240 from DAP Technologies (FCC ID: T5M5000B8)

# According to the FCC Requirements

# SAR Distribution Plots

February 02, 2010

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# 1 SAR Distribution Plots, GPRS 850 Body

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 446_bahm_1.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 850**

Communication System: GPRS 850; Frequency: 836.6 MHz;Duty Cycle: 1:2

Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $\varepsilon_r$ = 57.6; ρ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.89, 5.89, 5.89); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (10x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.127 mW/g

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

Reference Value = 6.66 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.238 W/kg

**SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.069 mW/g**
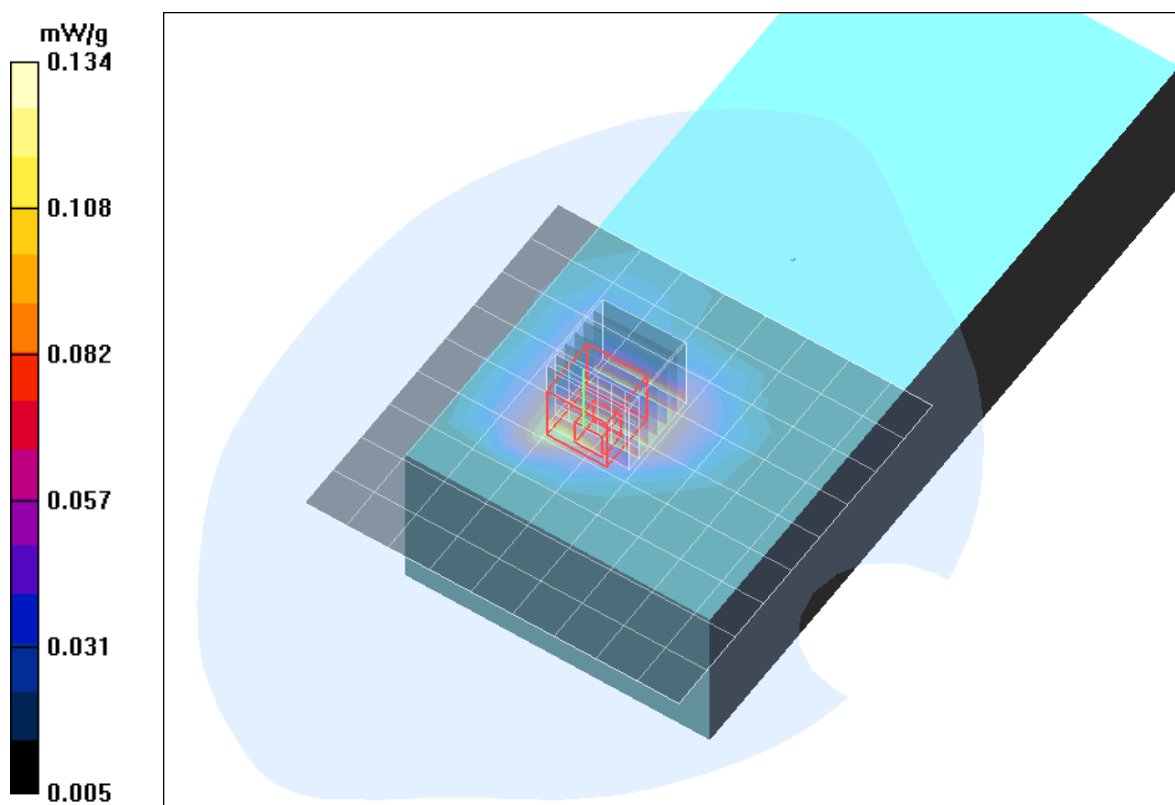
Maximum value of SAR (measured) = 0.134 mW/g



Fig. 1:    SAR distribution for GPRS 850 (Class 12), channel 190, Position 1 (December 14, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.5°C).

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 446_bahm_2.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 850**

Communication System: GPRS 850; Frequency: 836.6 MHz;Duty Cycle: 1:2

Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $\varepsilon_r$ = 57.6; ρ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.89, 5.89, 5.89); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (10x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.019 mW/g

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

Reference Value = 4.02 V/m; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 0.021 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.013 mW/g**

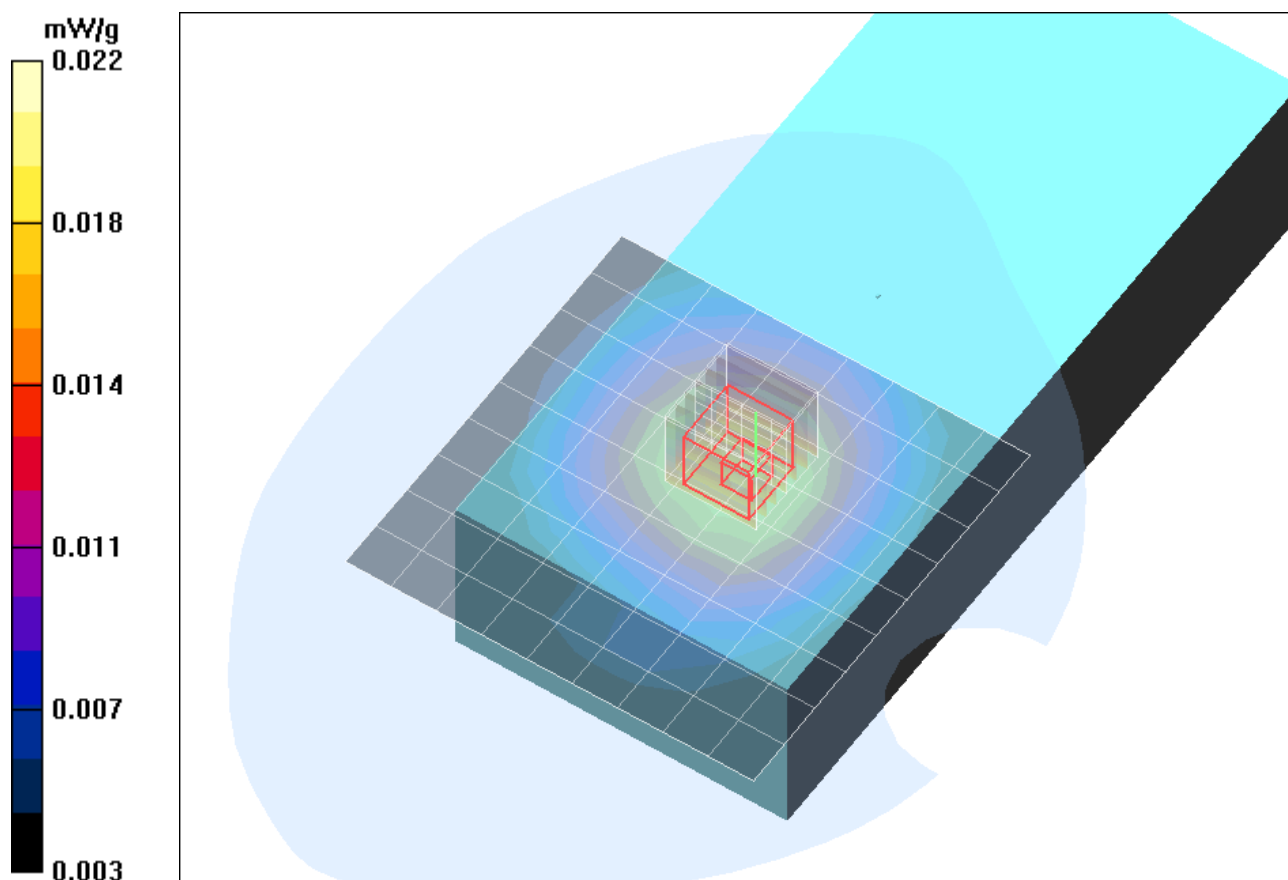Maximum value of SAR (measured) = 0.018 mW/g



Fig. 2:    SAR distribution for GPRS 850 (Class 12), channel 190, Position 2 (December 14, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.5°C).

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 446_bahm_3.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 850**

Communication System: GPRS 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $\varepsilon_r$ = 57.6; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.89, 5.89, 5.89); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (11x10x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.016 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.14 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 0.022 W/kg
**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.010 mW/g**
Maximum value of SAR (measured) = 0.017 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.14 V/m; Power Drift = -0.106 dB
Peak SAR (extrapolated) = 0.015 W/kg
**SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00864 mW/g**
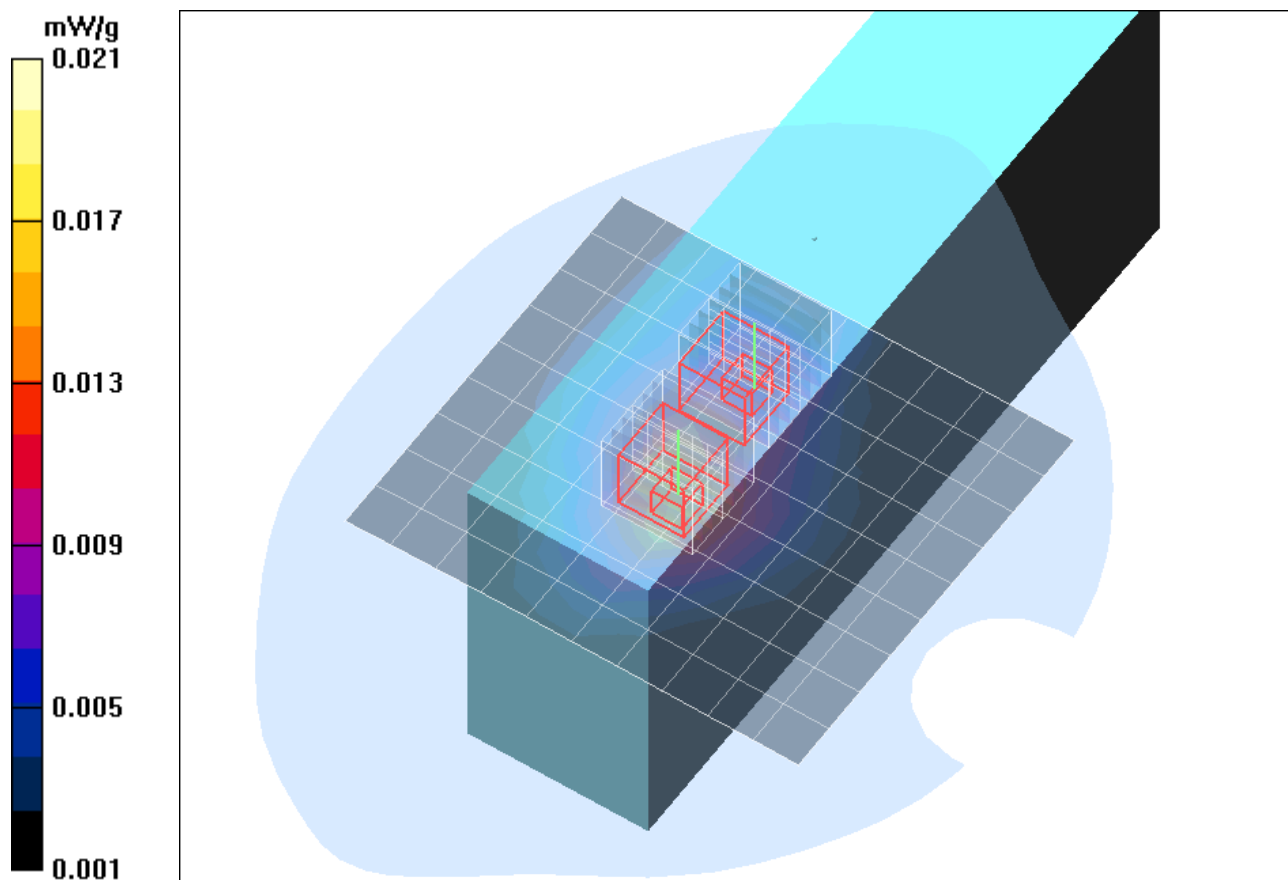Maximum value of SAR (measured) = 0.012 mW/g



Fig. 3:    SAR distribution for GPRS 850 (Class 12), channel 190, Position 3 (December 14, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.5°C).

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 446_bahm_4.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 850**

Communication System: GPRS 850; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $\varepsilon_r$ = 57.6; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.89, 5.89, 5.89); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (10x11x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.008 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.65 V/m; Power Drift = -0.084 dB
Peak SAR (extrapolated) = 0.010 W/kg
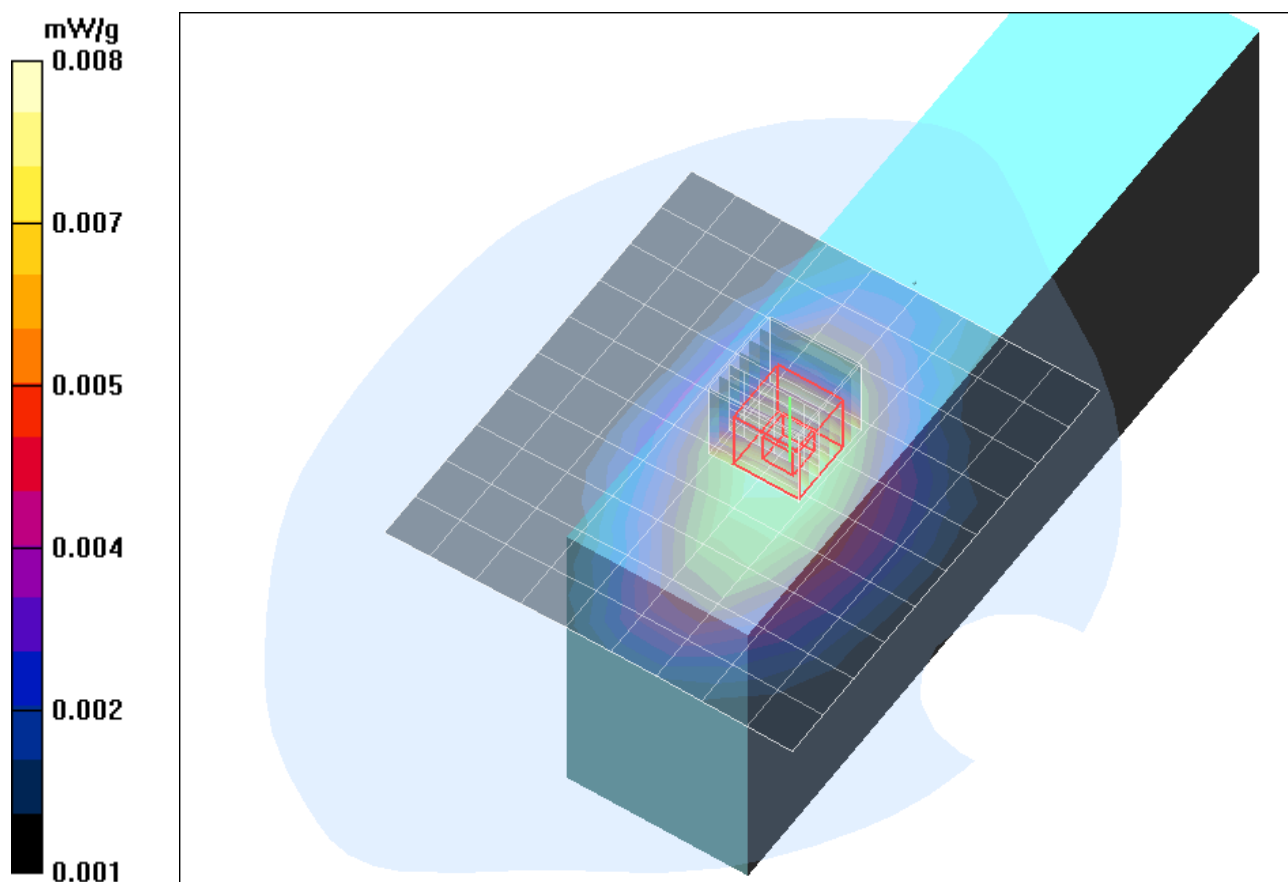**SAR(1 g) = 0.008 mW/g; SAR(10 g) = 0.0056 mW/g**



Fig. 4:    SAR distribution for GPRS 850 (Class 12), channel 190, Position 4 (December 14, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.5°C).

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: 446_bahm_5.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 850**

Communication System: GPRS 850; Frequency: 836.6 MHz;Duty Cycle: 1:2

Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $\varepsilon_r$ = 57.6; ρ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6R - SN1669; ConvF(5.89, 5.89, 5.89); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (11x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.854 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.002 W/kg

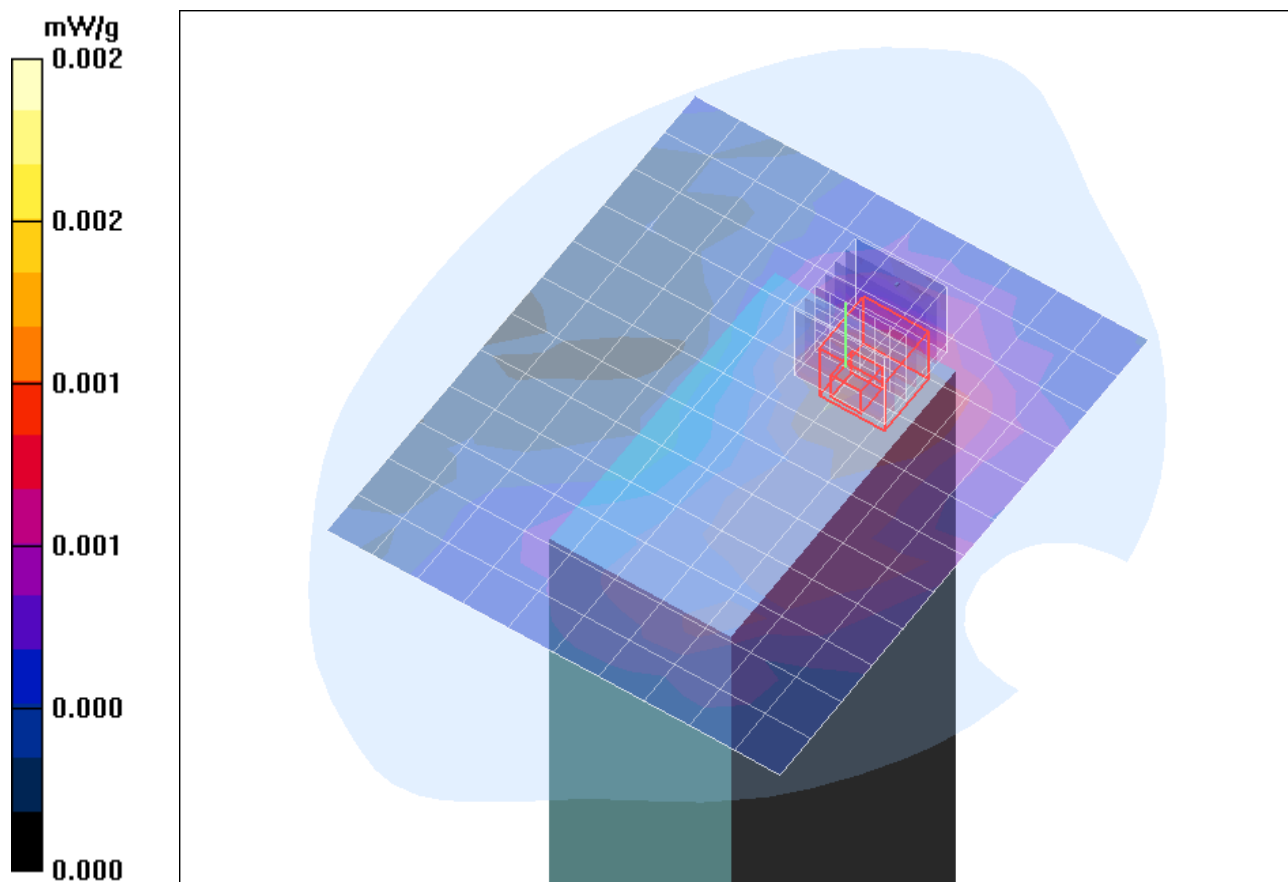**SAR(1 g) = 0.001 mW/g; SAR(10 g) = 0.001 mW/g**



Fig. 5:    SAR distribution for GPRS 850 (Class 12), channel 190, Position 5 (December 14, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.5°C).

## 2 SAR Distribution Plots, GPRS 1900 Body

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_yphm_1.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 1900**

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.52 mho/m; $\varepsilon_r$ = 54; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.11, 8.11, 8.11); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (10x10x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.162 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.61 V/m; Power Drift = -0.181 dB
Peak SAR (extrapolated) = 0.296 W/kg
**SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.084 mW/g**
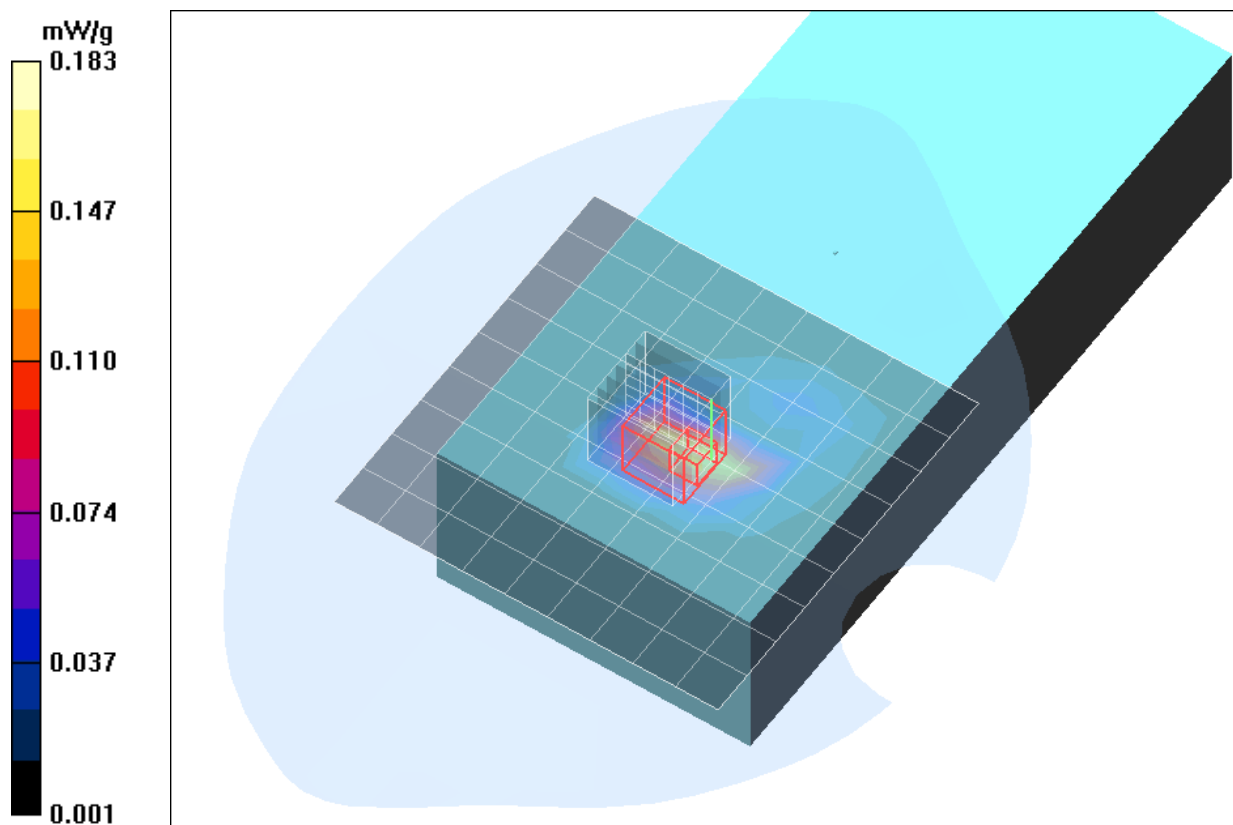Maximum value of SAR (measured) = 0.183 mW/g



Fig. 6:  SAR distribution for GPRS 1900 (Class 12), channel 661, Position 1 (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_yphm_2.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 1900**

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

Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; $\varepsilon_r$ = 54; ρ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.11, 8.11, 8.11); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (10x10x1):** Measurement grid: dx=15mm, dy=15mm
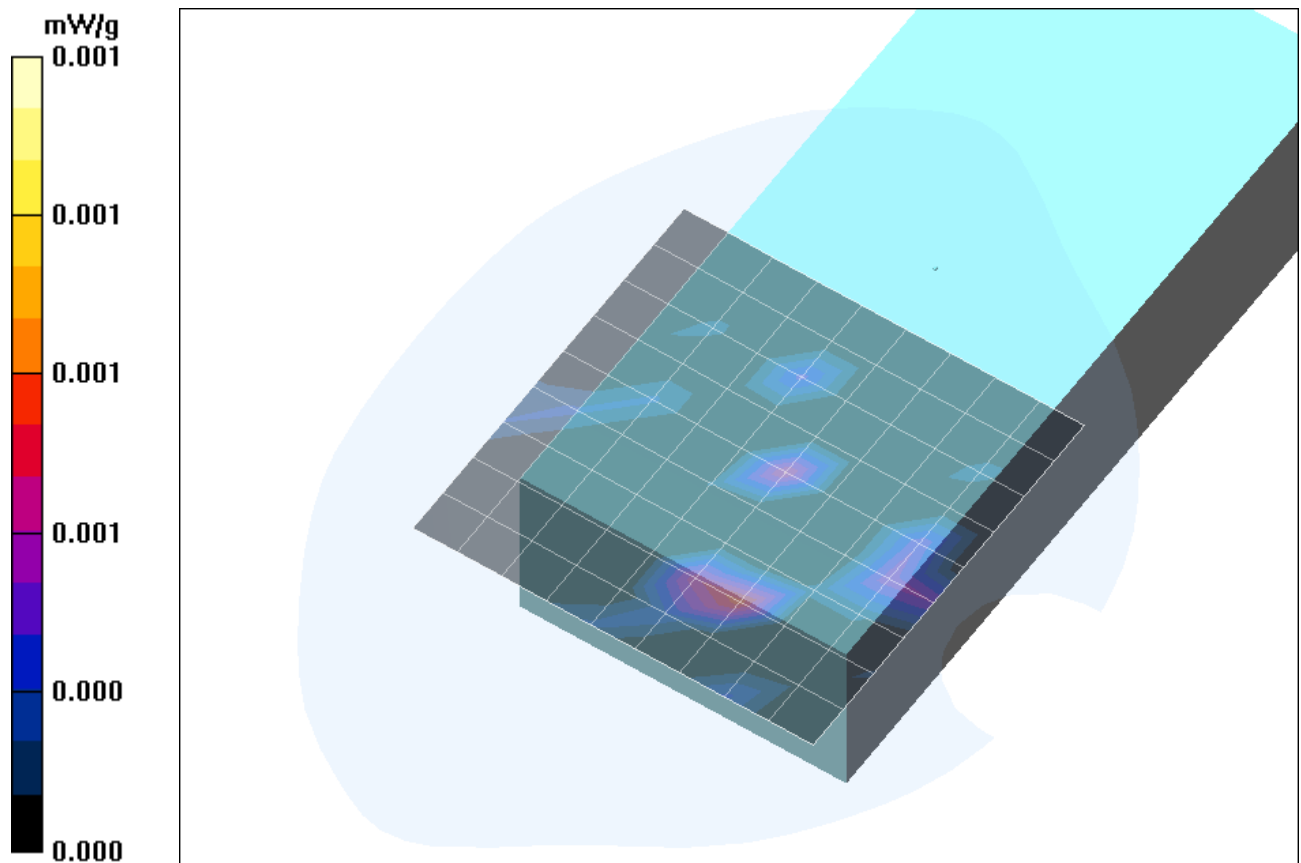
Maximum value of SAR (measured) = 0.001 mW/g



Fig. 7:   SAR distribution for GPRS 1900 (Class 12), channel 661, Position 2 (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_yphm_3.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 1900**

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.52 mho/m; $\varepsilon_r$ = 54; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.11, 8.11, 8.11); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (11x10x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.002 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.876 V/m; Power Drift = 0.121 dB
Peak SAR (extrapolated) = 0.009 W/kg
**SAR(1 g) = 0.00219 mW/g; SAR(10 g) = 0.00106 mW/g**
Maximum value of SAR (measured) = 0.003 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.876 V/m; Power Drift = 0.121 dB
Peak SAR (extrapolated) = 0.004 W/kg
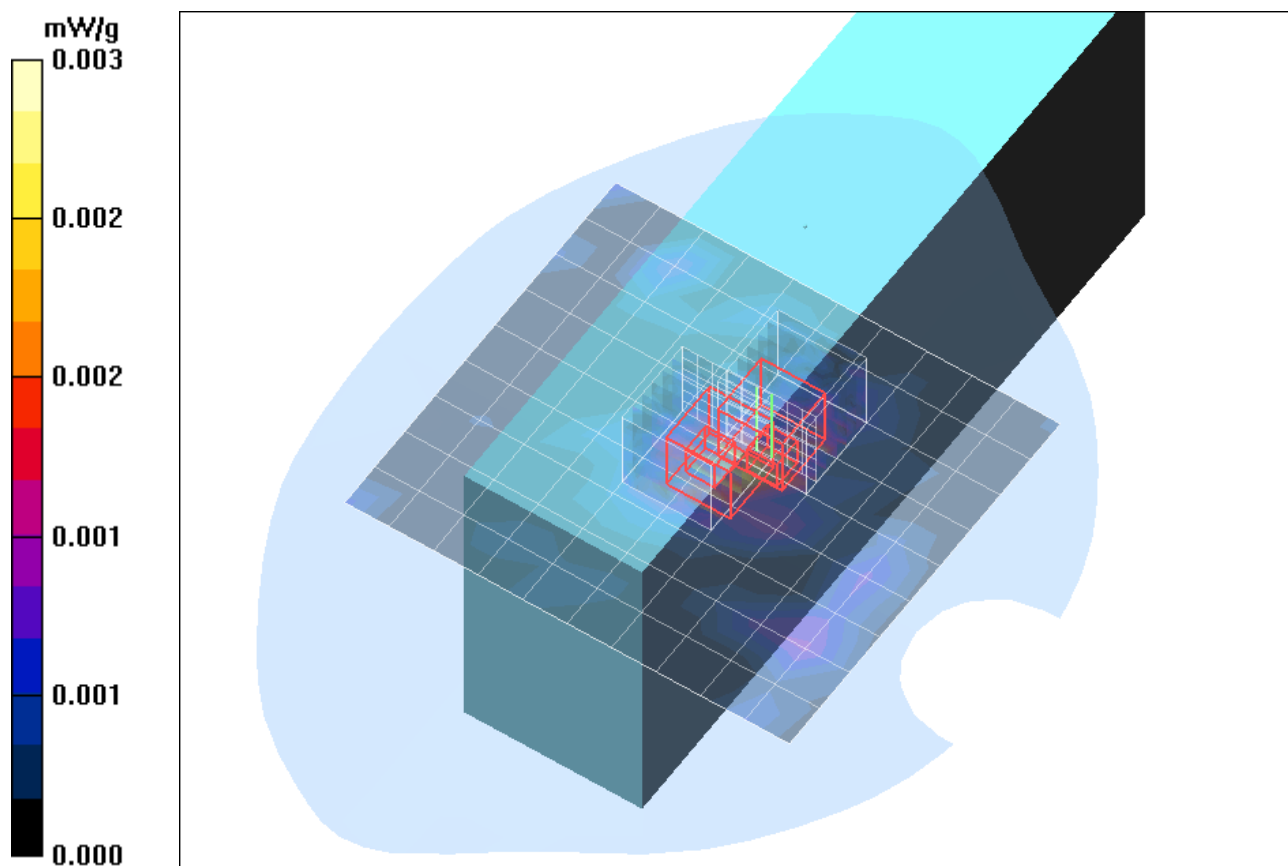**SAR(1 g) = 0.002 mW/g; SAR(10 g) = 0.001 mW/g**



Fig. 8:   SAR distribution for GPRS 1900 (Class 12), channel 661, Position 3 (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_yphm_4.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 1900**

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

Medium parameters used: f = 1880 MHz; $\sigma$ = 1.52 mho/m; $\varepsilon_r$ = 54; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.11, 8.11, 8.11); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (11x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.004 mW/g

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

Reference Value = 0.937 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 0.010 W/kg

**SAR(1 g) = 0.004 mW/g; SAR(10 g) = 0.002 mW/g**

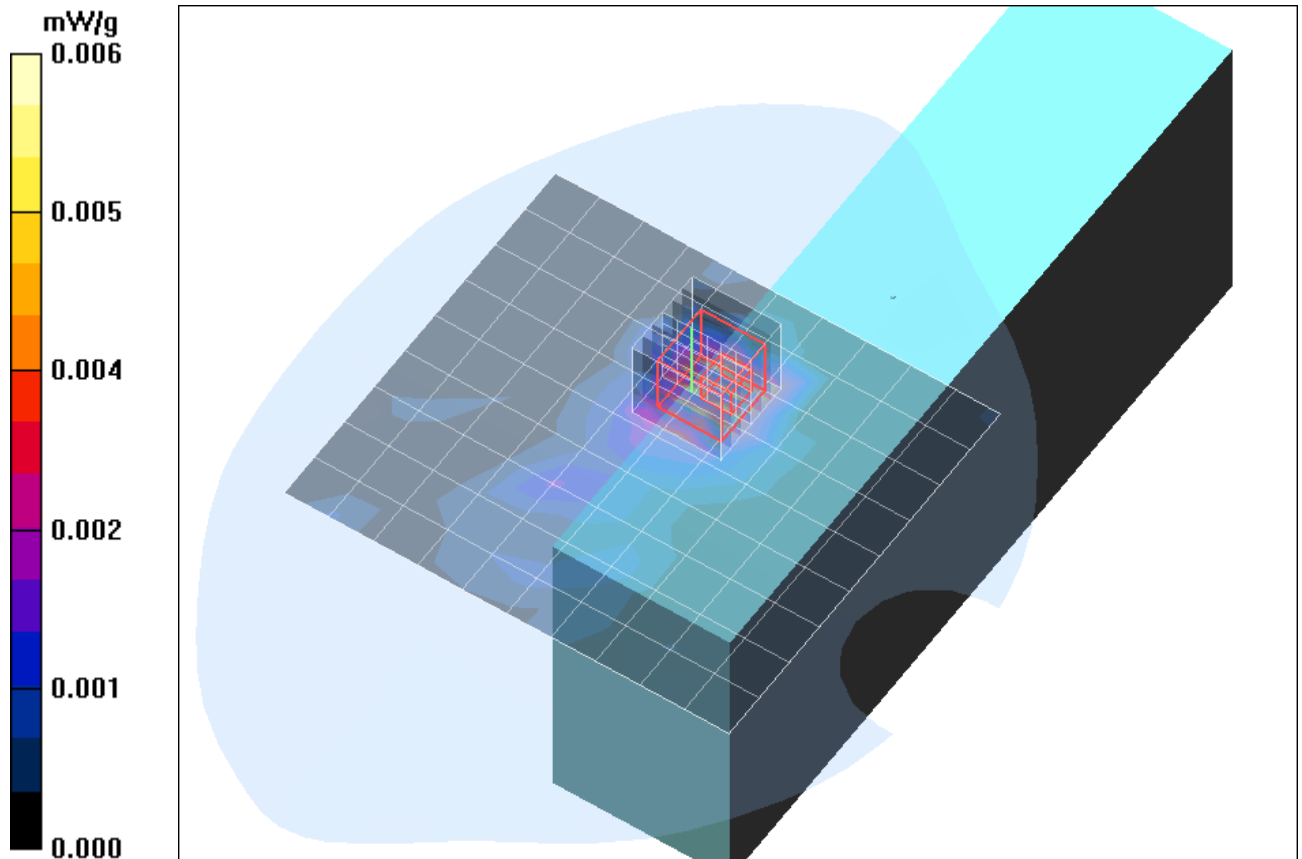Maximum value of SAR (measured) = 0.006 mW/g

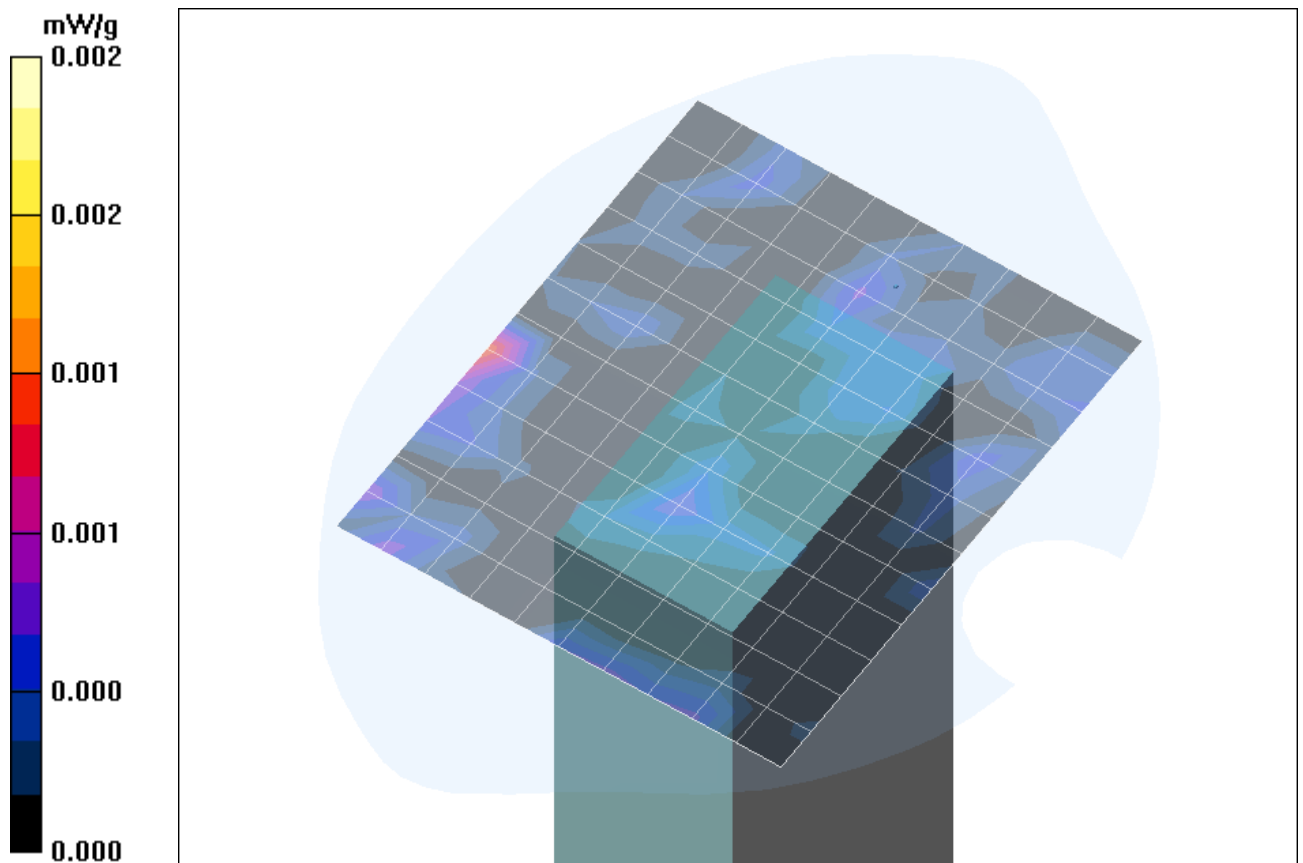

Fig. 9:    SAR distribution for GPRS 1900 (Class 12), channel 661, Position 4 (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_yphm_5.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: GPRS 1900**

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:2
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.52 mho/m; $\varepsilon_r$ = 54; $\rho$ = 1000 kg/m³
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(8.11, 8.11, 8.11); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (11x13x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.001 mW/g



Fig. 10: SAR distribution for GPRS 1900 (Class 12), channel 661, Position 5 (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).

## 3 SAR Distribution Plots, IEEE 802.11 b Body

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_ywhm_b_CH6_1.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: WLAN**

Communication System: WLAN 2450; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; $ε_r$ = 53.5; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(7.57, 7.57, 7.57); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (13x13x1):** Measurement grid: dx=10mm, dy=10mm
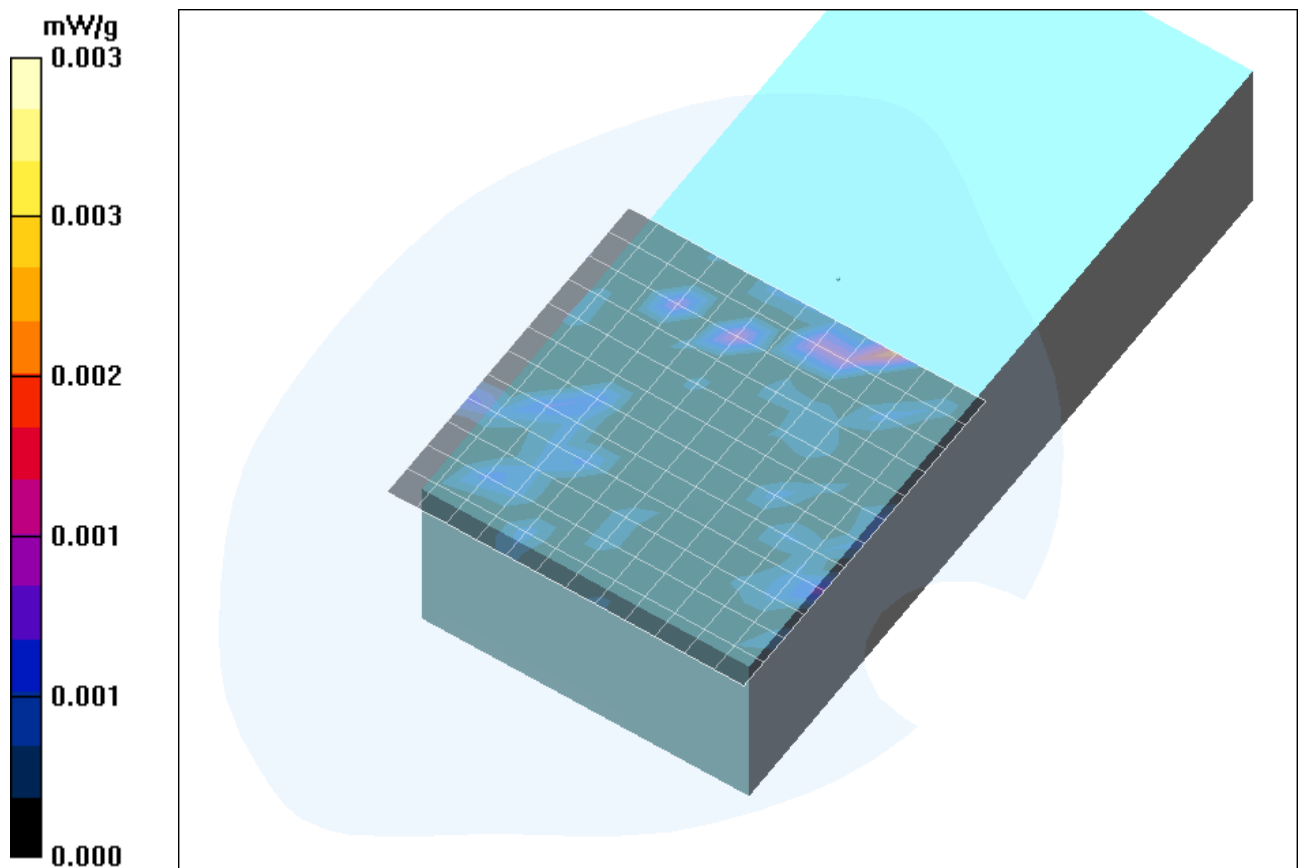Maximum value of SAR (measured) = 0.002 mW/g



Fig. 11:  SAR distribution for IEEE 802.11 b, channel 6, Position 1 (December 23, 2009; Ambient Temperature: 20.7°C; Liquid Temperature: 20.2°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_ywhm_b_CH6_2.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: WLAN**

Communication System: WLAN 2450; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; $\varepsilon_r$ = 53.5; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(7.57, 7.57, 7.57); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (15x13x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.035 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.552 V/m; Power Drift = 0.085 dB
Peak SAR (extrapolated) = 0.072 W/kg
**SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.018 mW/g**
Maximum value of SAR (measured) = 0.039 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.552 V/m; Power Drift = 0.085 dB
Peak SAR (extrapolated) = 0.062 W/kg
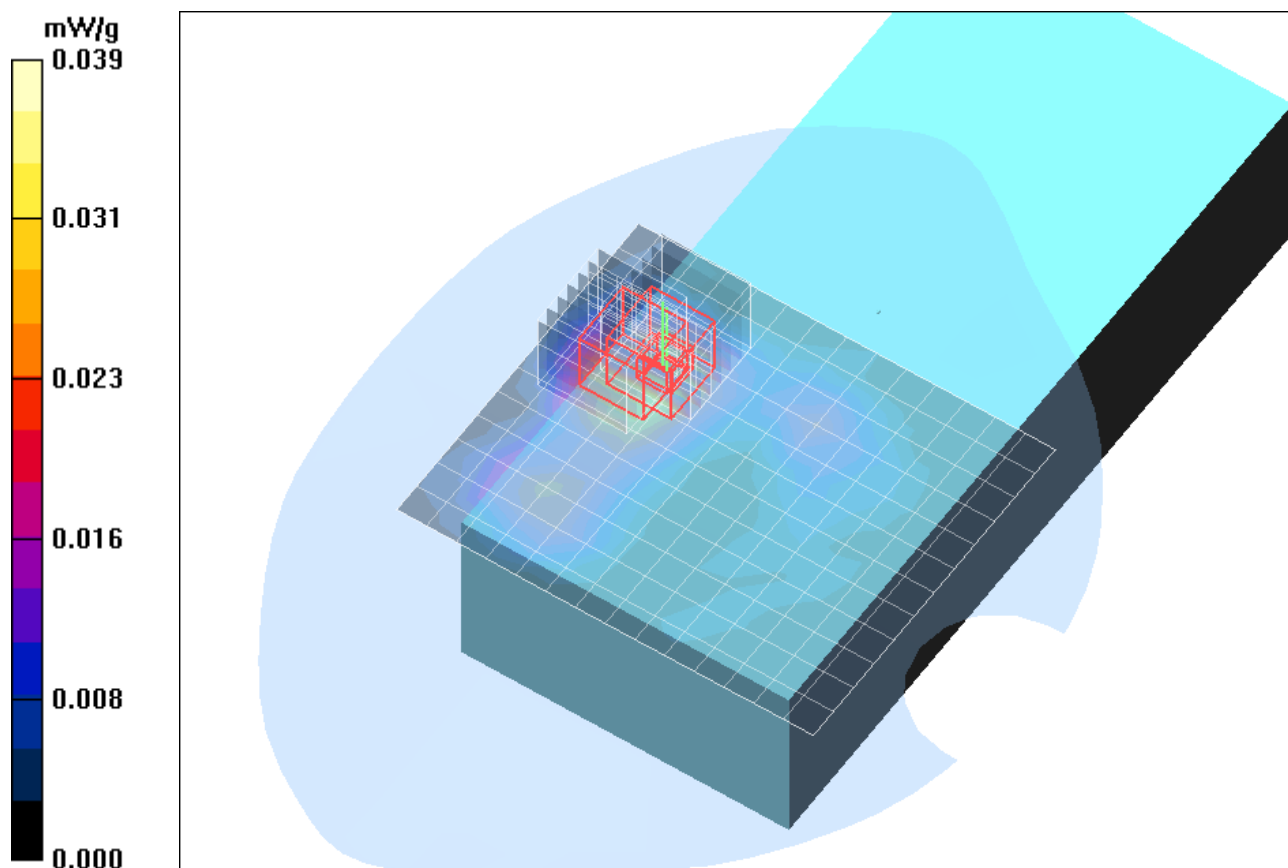**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.017 mW/g**



Fig. 12: SAR distribution for IEEE 802.11 b, channel 6, Position 2 (December 23, 2009; Ambient Temperature: 20.7°C; Liquid Temperature: 20.2°C).

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**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_ywhm_b_CH6_3.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: WLAN**

Communication System: WLAN 2450; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; $\varepsilon_r$ = 53.5; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(7.57, 7.57, 7.57); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (15x15x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.006 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.935 V/m; Power Drift = 0.119 dB
Peak SAR (extrapolated) = 0.015 W/kg
**SAR(1 g) = 0.007 mW/g; SAR(10 g) = 0.002 mW/g**
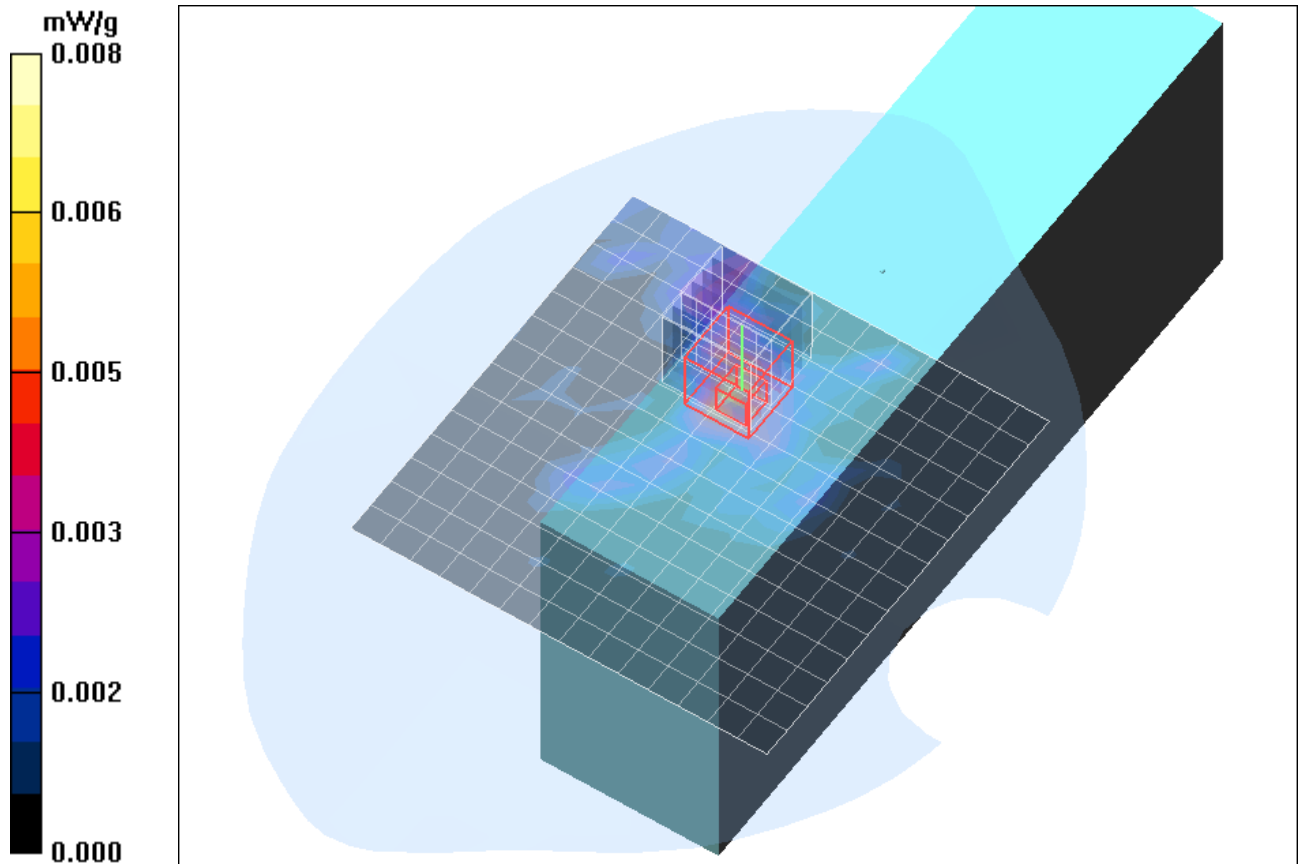Maximum value of SAR (measured) = 0.008 mW/g



Fig. 13: SAR distribution for IEEE 802.11 b, channel 6, Position 3 (December 23, 2009; Ambient Temperature: 20.7°C; Liquid Temperature: 20.2°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_ywhm_b_CH6_4.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: WLAN**

Communication System: WLAN 2450; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; $\sigma$ = 1.96 mho/m; $\varepsilon_r$ = 53.5; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:
- Probe: EX3DV4 - SN3536; ConvF(7.57, 7.57, 7.57); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (11x16x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.091 mW/g
**Body Worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.78 V/m; Power Drift = 0.042 dB
Peak SAR (extrapolated) = 0.176 W/kg
**SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.034 mW/g**
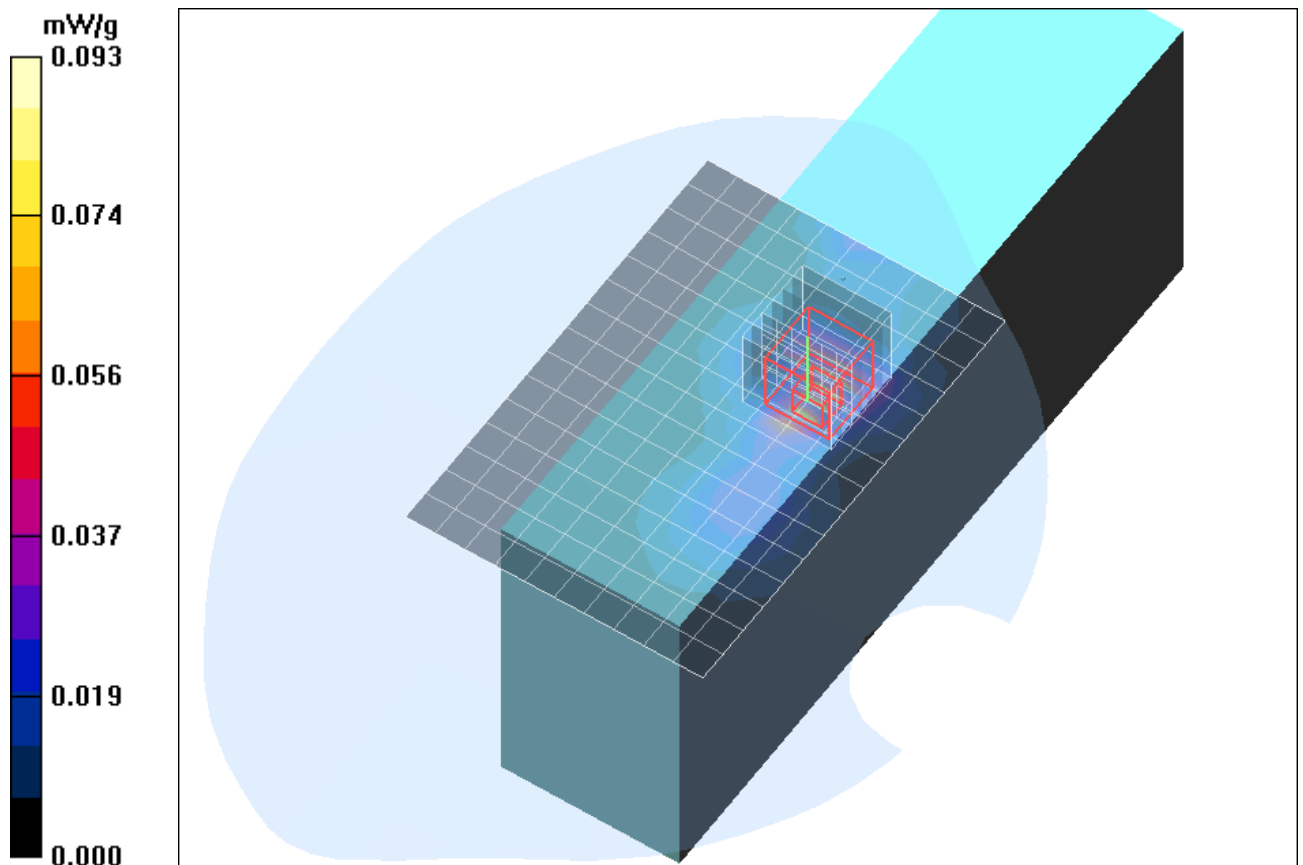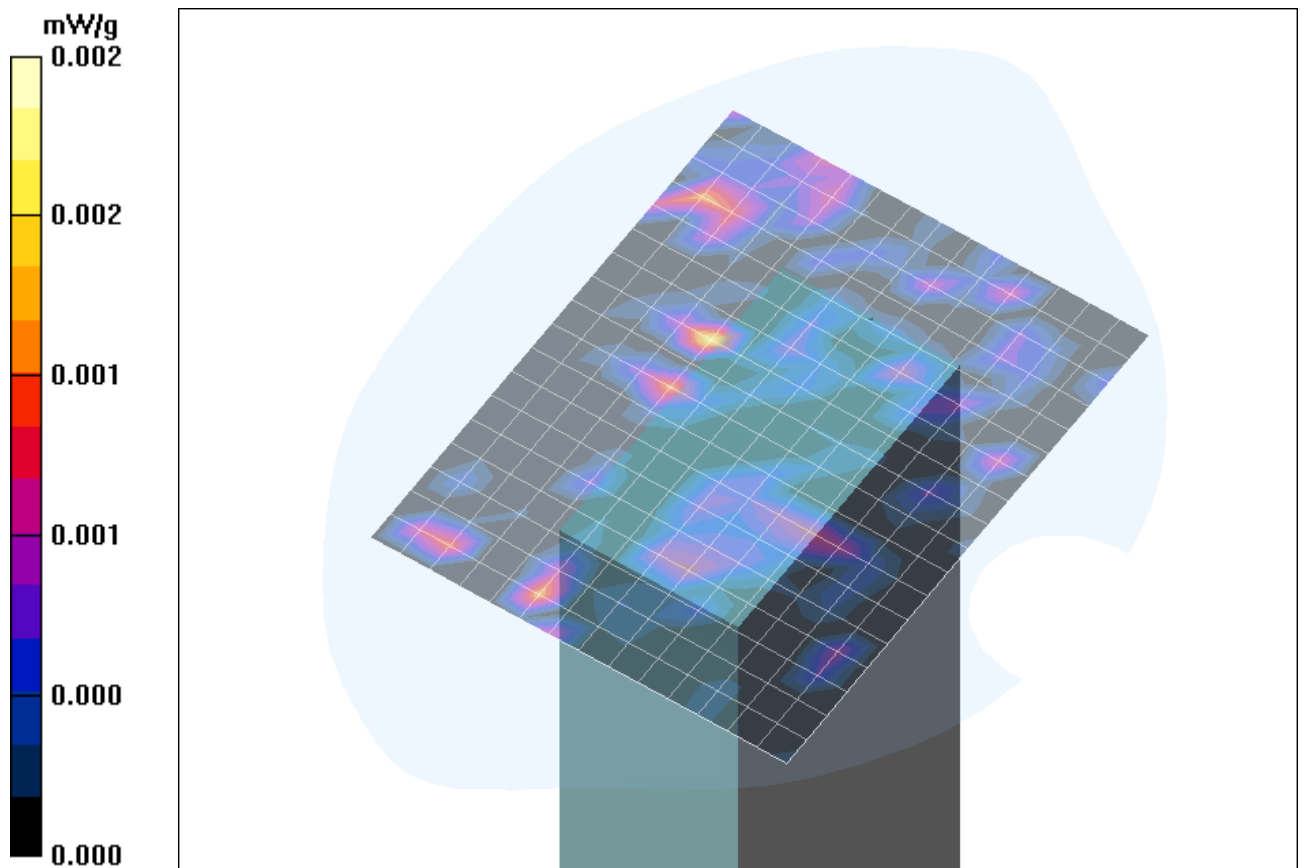Maximum value of SAR (measured) = 0.093 mW/g



Fig. 14: SAR distribution for IEEE 802.11 b, channel 6, Position 4 (December 23, 2009; Ambient Temperature: 20.7°C; Liquid Temperature: 20.2°C).

**Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: 446_ywhm_b_CH6_5.da4**

**DUT: DAP; Type: CE5240; Serial: 352678015275446**
**Program Name: WLAN**

Communication System: WLAN 2450; Frequency: 2437 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; $\varepsilon_r$ = 53.5; ρ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.57, 7.57, 7.57); Calibrated: 18.09.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 14.09.2009
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body Worn/Area Scan (15x19x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.002 mW/g



Fig. 15: SAR distribution for IEEE 802.11 b, channel 6, Position 5 (December 23, 2009; Ambient Temperature: 20.7°C; Liquid Temperature: 20.2°C).

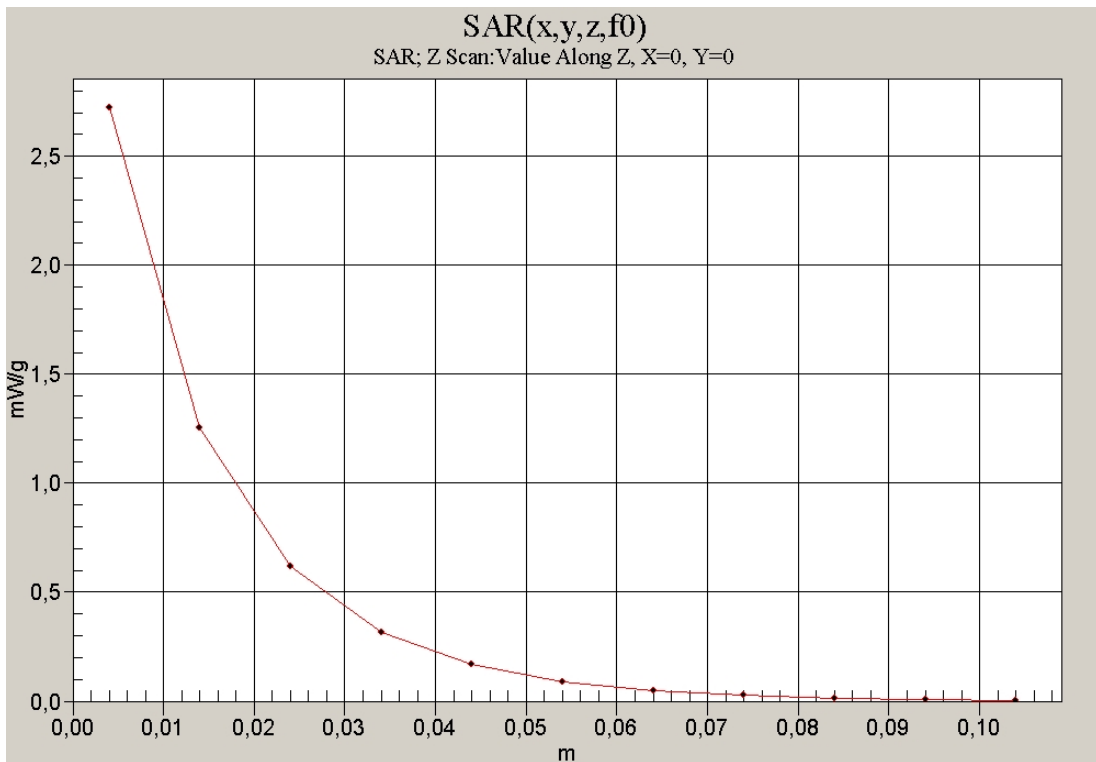## 4  SAR z-axis scans (Validation)



Fig. 16:  SAR versus liquid depth, 835 MHz, body (December  14, 2009; Ambient Temperature: 20.6°C; Liquid Temperature: 20.4°C).
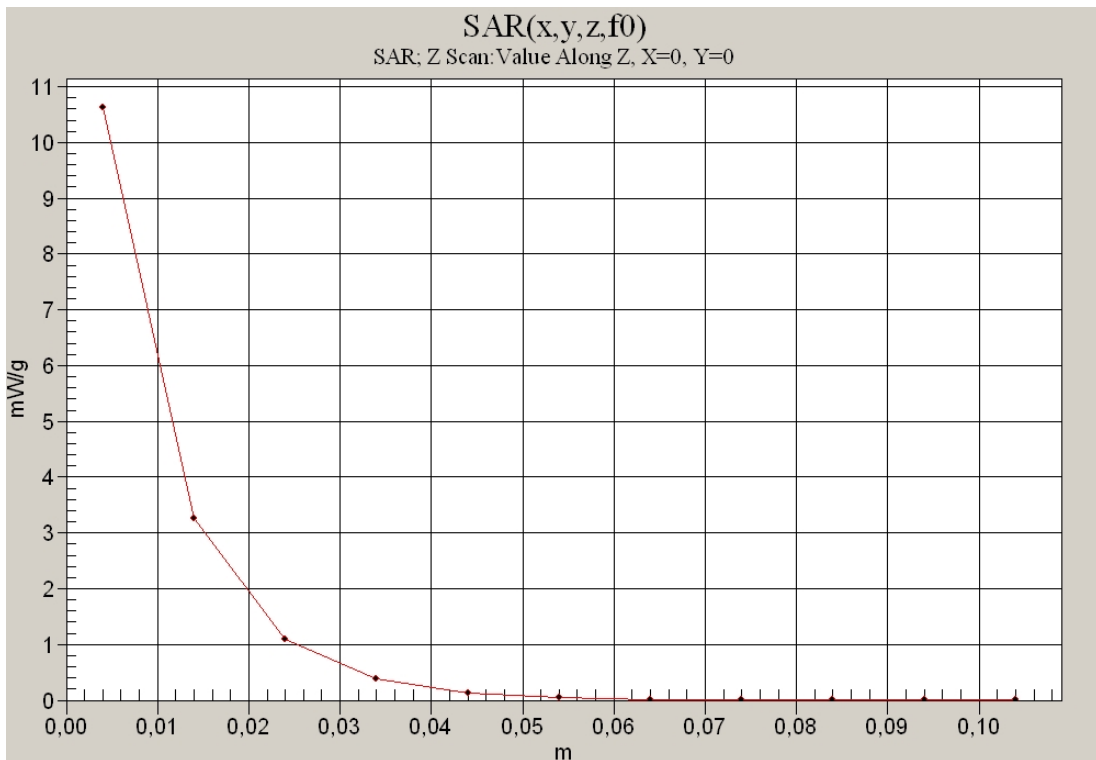


Fig. 17:  SAR versus liquid depth, 1900 MHz, body (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).
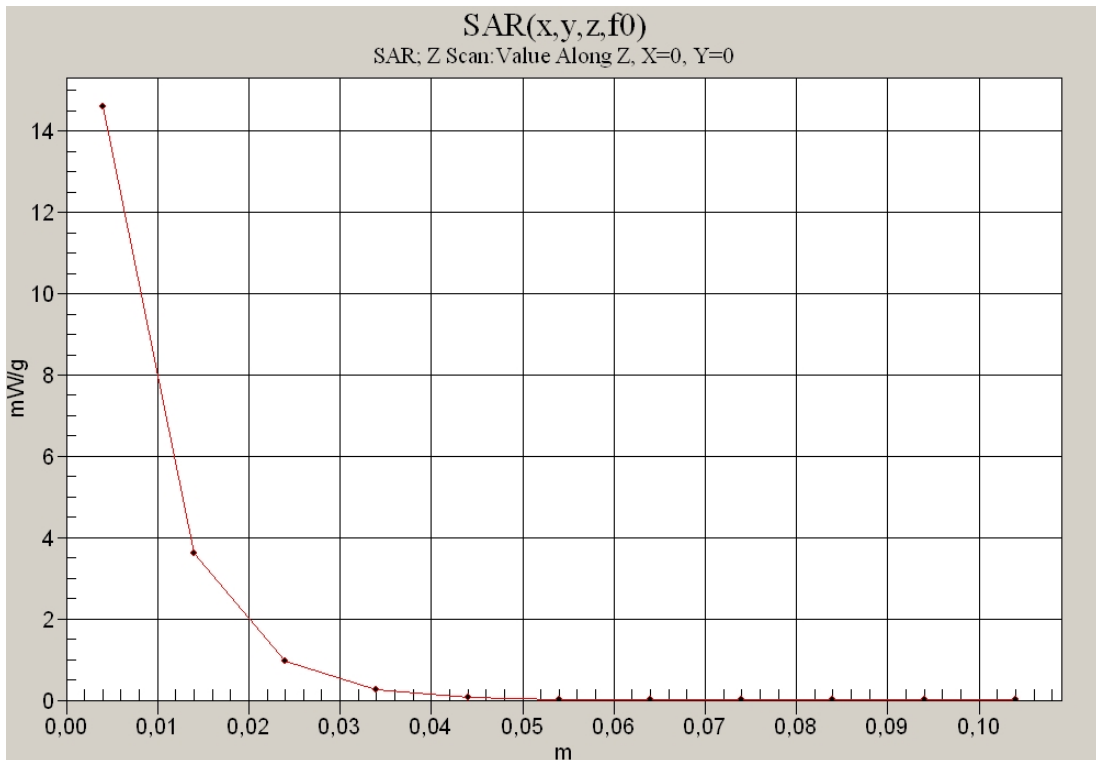
Fig. 18:  SAR versus liquid depth, 2450 MHz, body (December 23, 2010; Ambient Temperature: 20.6°C; Liquid Temperature: 20.2°C).

## 5  SAR z-axis scans (Measurements)

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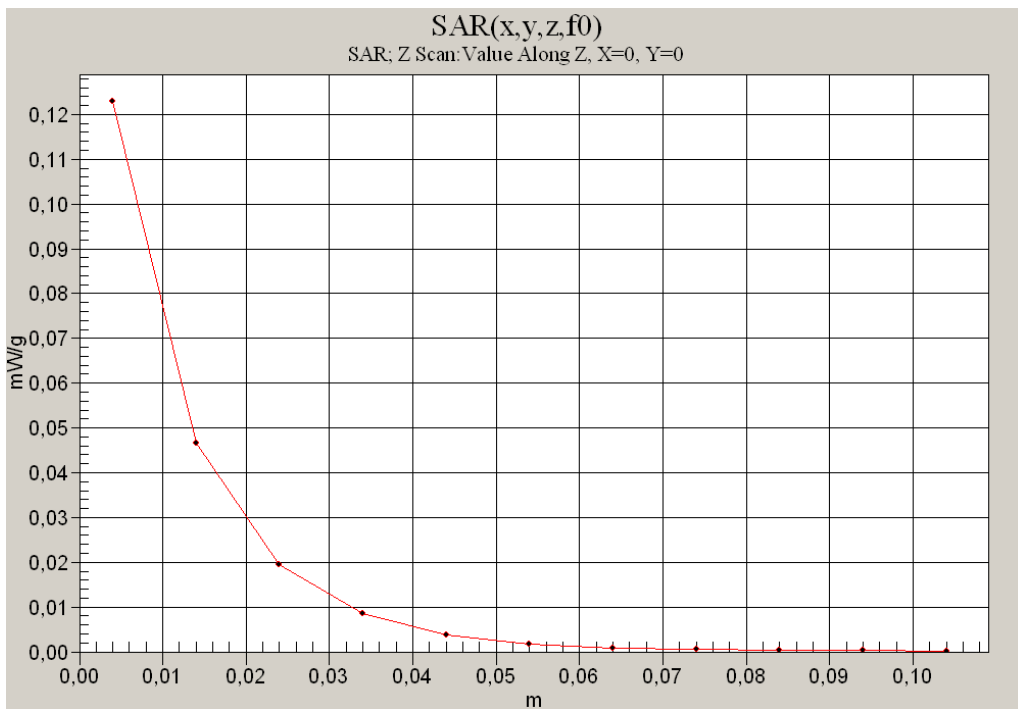


Fig. 19:  SAR versus liquid depth, body: GPRS 850 (Class 12), channel 190, Position 1 (December   14, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.5°C).
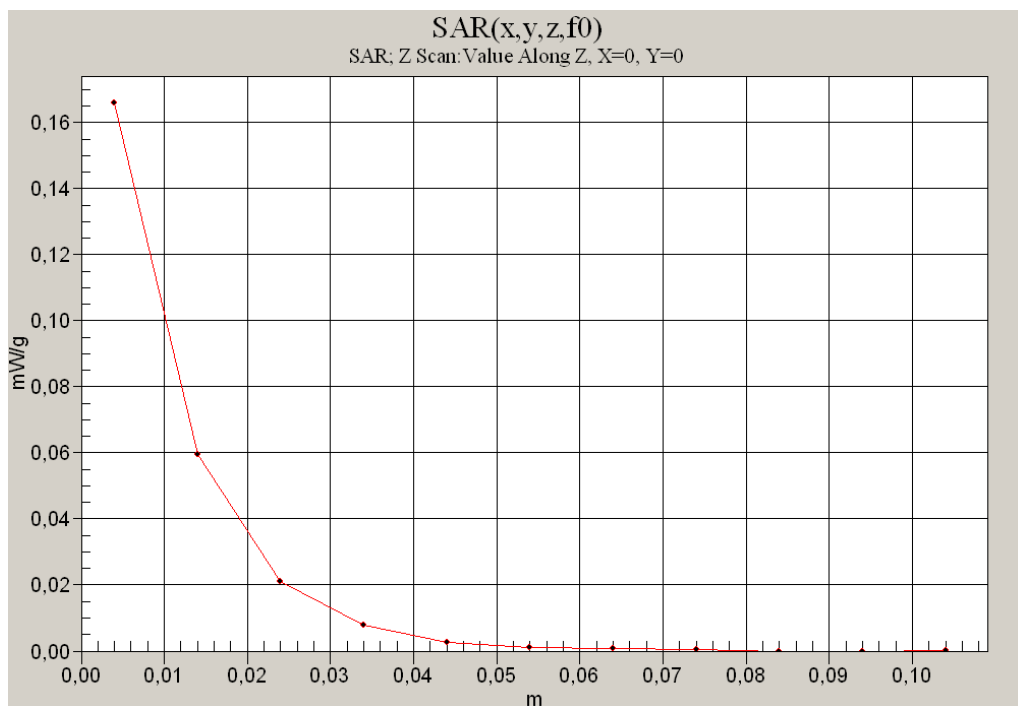


Fig. 20:  SAR versus liquid depth, body: GPRS 1900 (Class 12), channel 661, Position 1 (December 11, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.9°C).
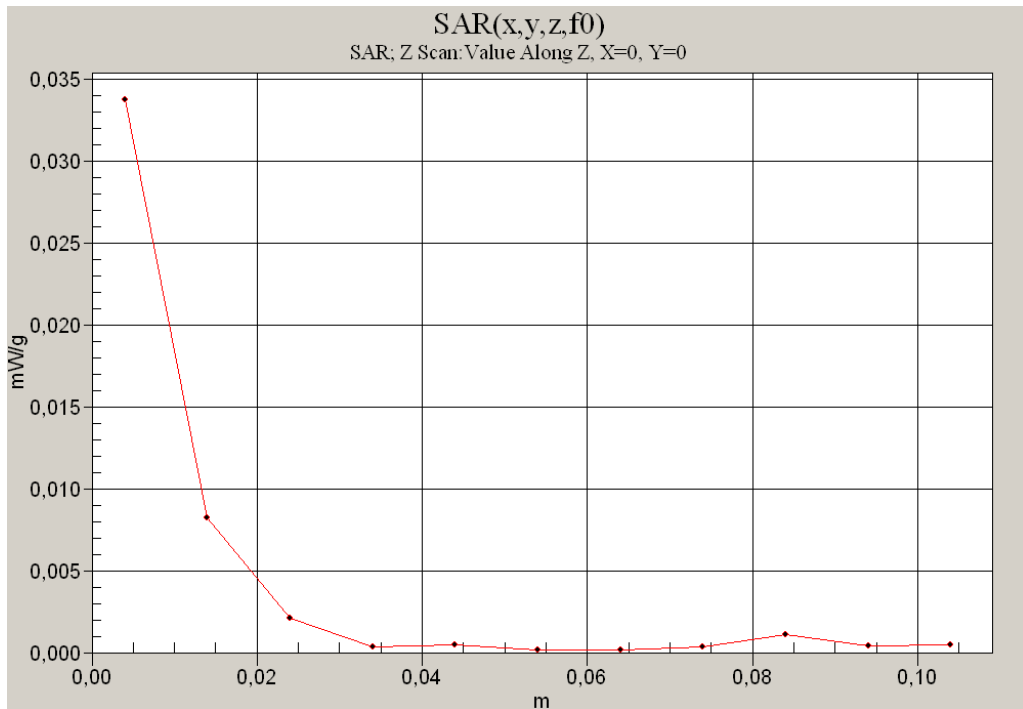
Fig. 21: SAR versus liquid depth, body: IEEE 802.11 b, channel 6, Position 2 (December 23, 2009; Ambient Temperature: 20.7°C; Liquid Temperature: 20.2°C).