
Appendix for the Report

Dosimetric Assessment of the Siemens CX75 (FCC ID: PWX-CX75)

According to the FCC Requirements

SAR Distribution Plots

April 25, 2005
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1 SAR Distribution Plots, PCS 1900 head, without flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [696yplm_1.da4](#)

DUT: Siemens; Type: Cx75 ; Serial: 004400009966696

Program Name: Cheek Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Left/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.563 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.646 mW/g

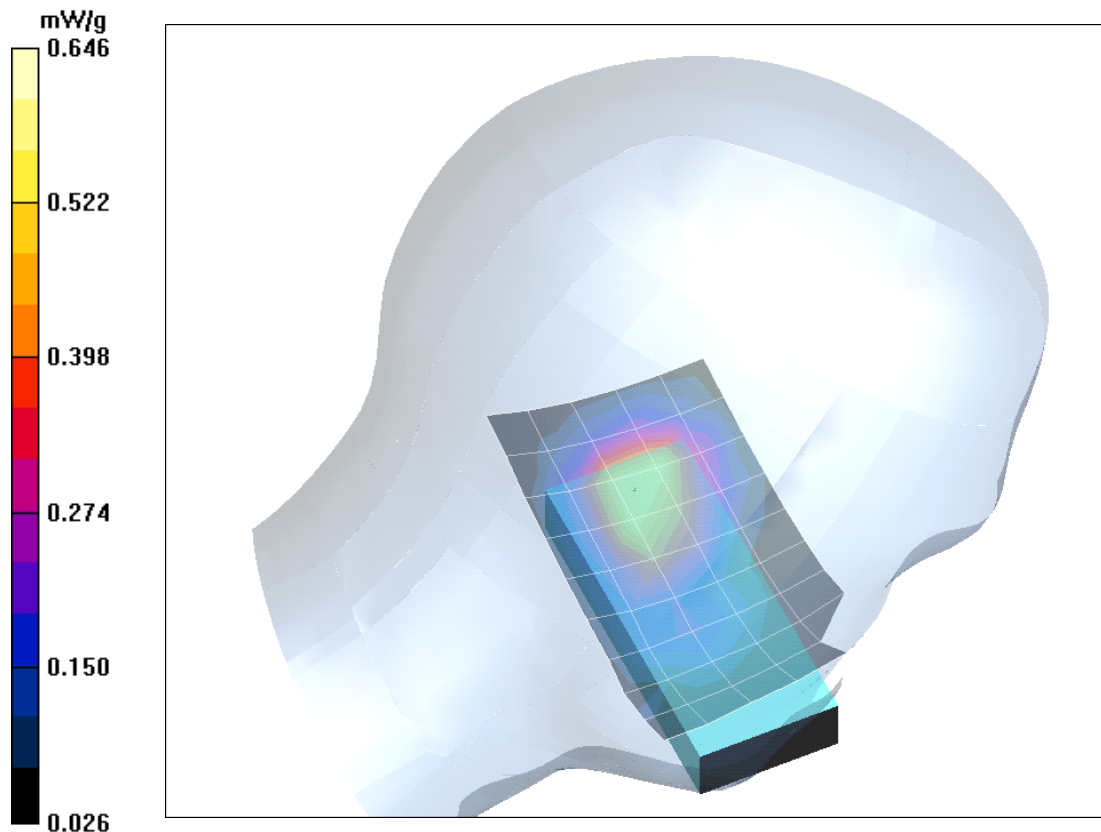


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (04.15.2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yp1m_2.da4](#)

DUT: Siemens; **Type:** Cx75 ; **Serial:** 004400009966696

Program Name: Tilted Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Left/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.706 mW/g

Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.8 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.722 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.792 mW/g

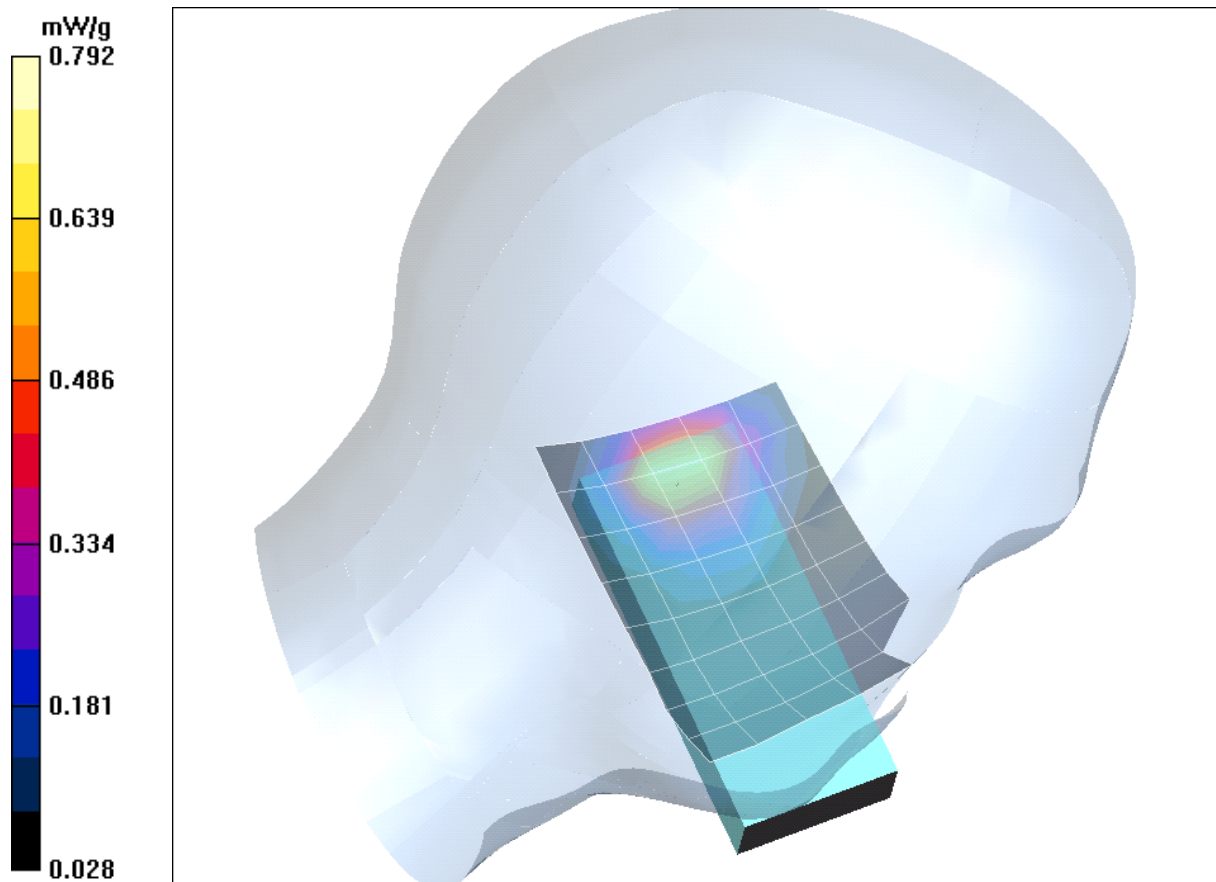


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (04.15.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yprm_1.da4](#)

DUT: Siemens; **Type:** Cx75 ; **Serial:** 004400009966696

Program Name: Cheek Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Right/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.714 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.4 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.385 mW/g

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

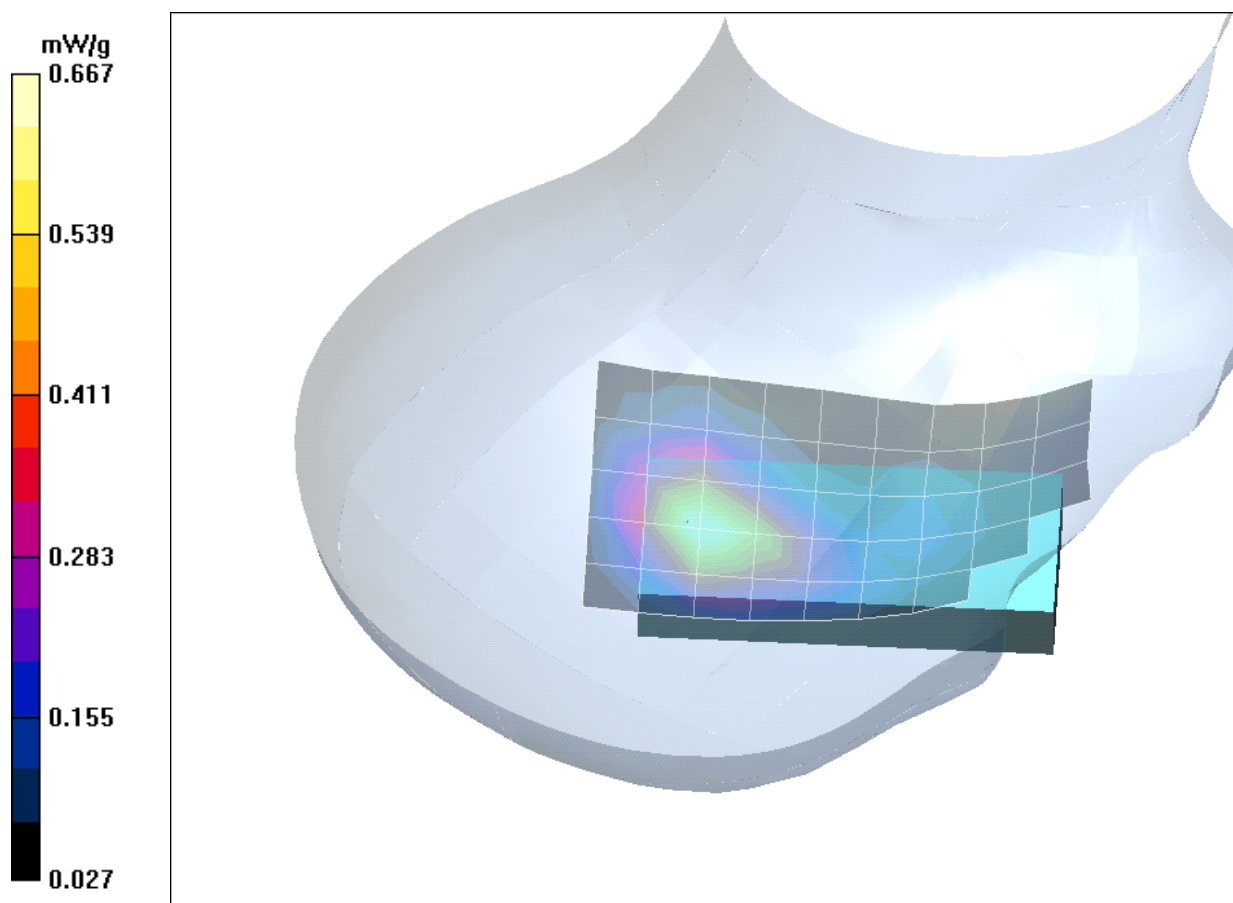


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (15.04.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yprm_2.da4](#)

DUT: Siemens; **Type:** Cx75 ; **Serial:** 004400009966696

Program Name: Tilted Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Right/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.686 mW/g

Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.803 mW/g

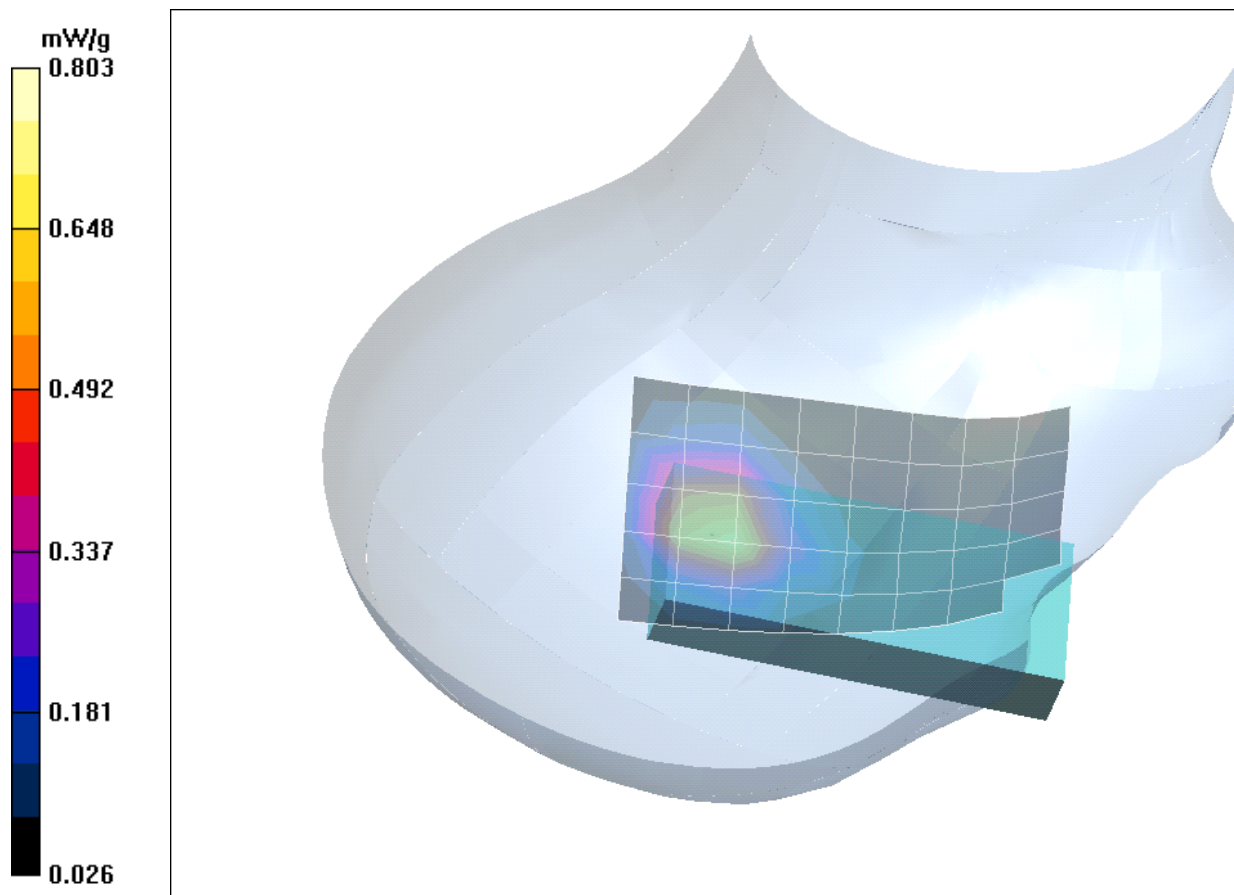


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (15.04.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

2 SAR Distribution Plots, PCS 1900 head, with flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [696yplm_1_flash.da4](#)

DUT: Siemens; Type: Cx75 flash; Serial: 004400009966696

Program Name: Cheek Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Left/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.548 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.602 mW/g

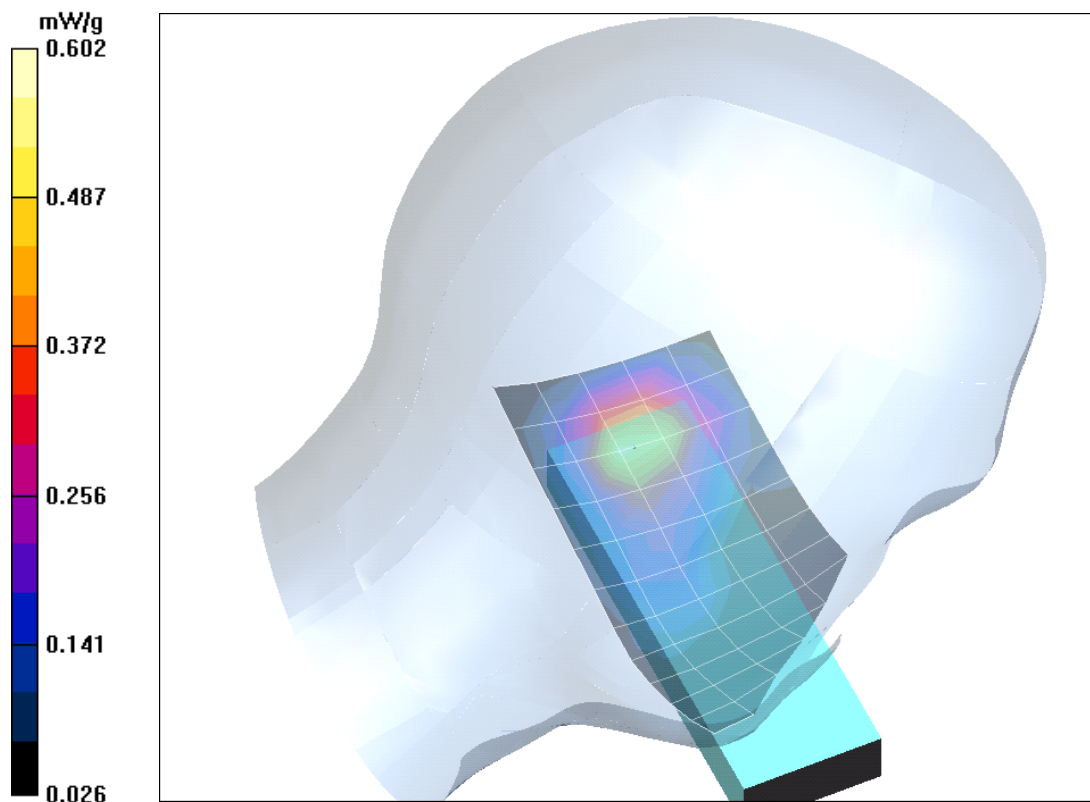


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (04.15.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yp1m_2_flash.da4](#)

DUT: Siemens; **Type:** Cx75 flash; **Serial:** 004400009966696

Program Name: Tilted Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Left/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.668 mW/g

Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.5 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.735 mW/g

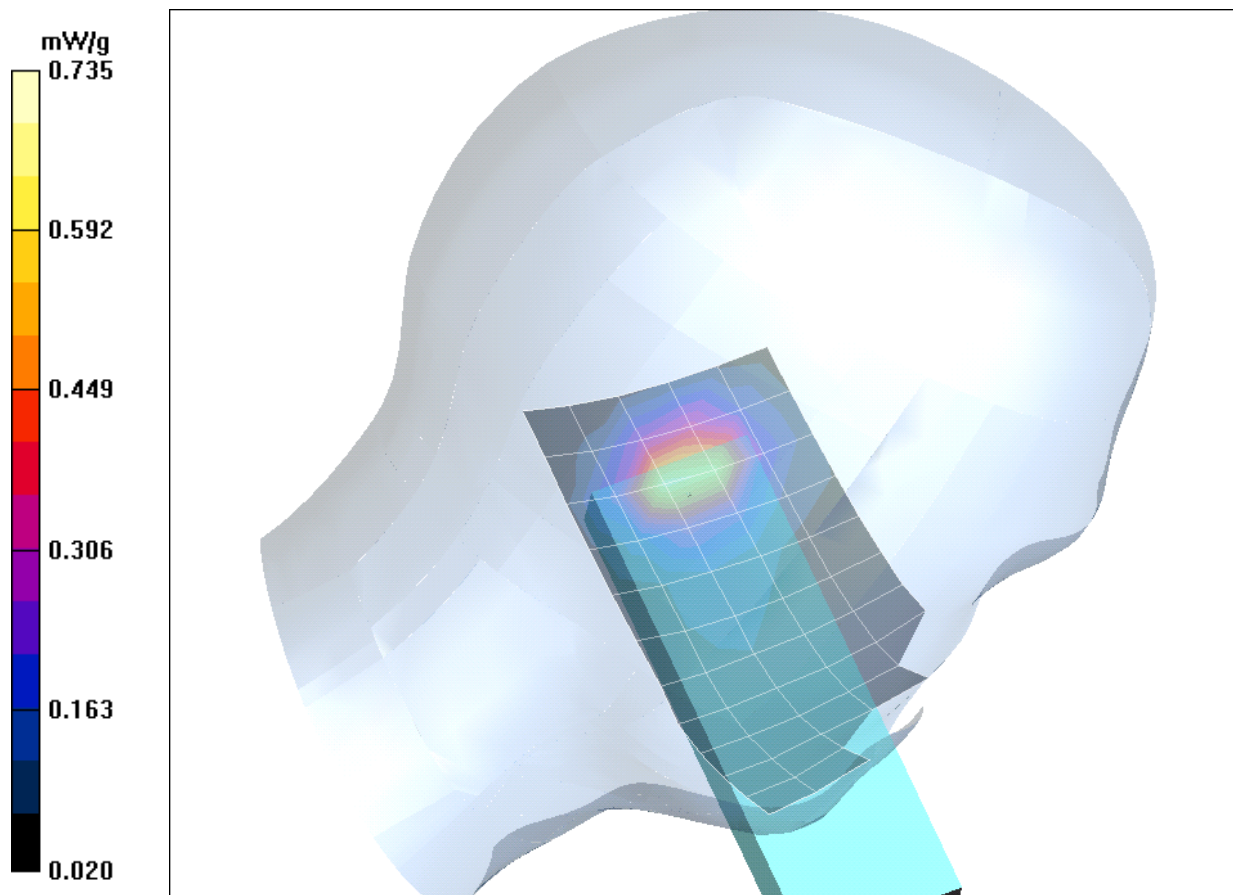


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (04.15.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yprm_1_flash.da4](#)

DUT: Siemens; **Type:** Cx75 flash; **Serial:** 004400009966696

Program Name: Cheek Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Right/Area Scan (6x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.498 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 19.0 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.325 mW/g

Maximum value of SAR (measured) = 0.611 mW/g

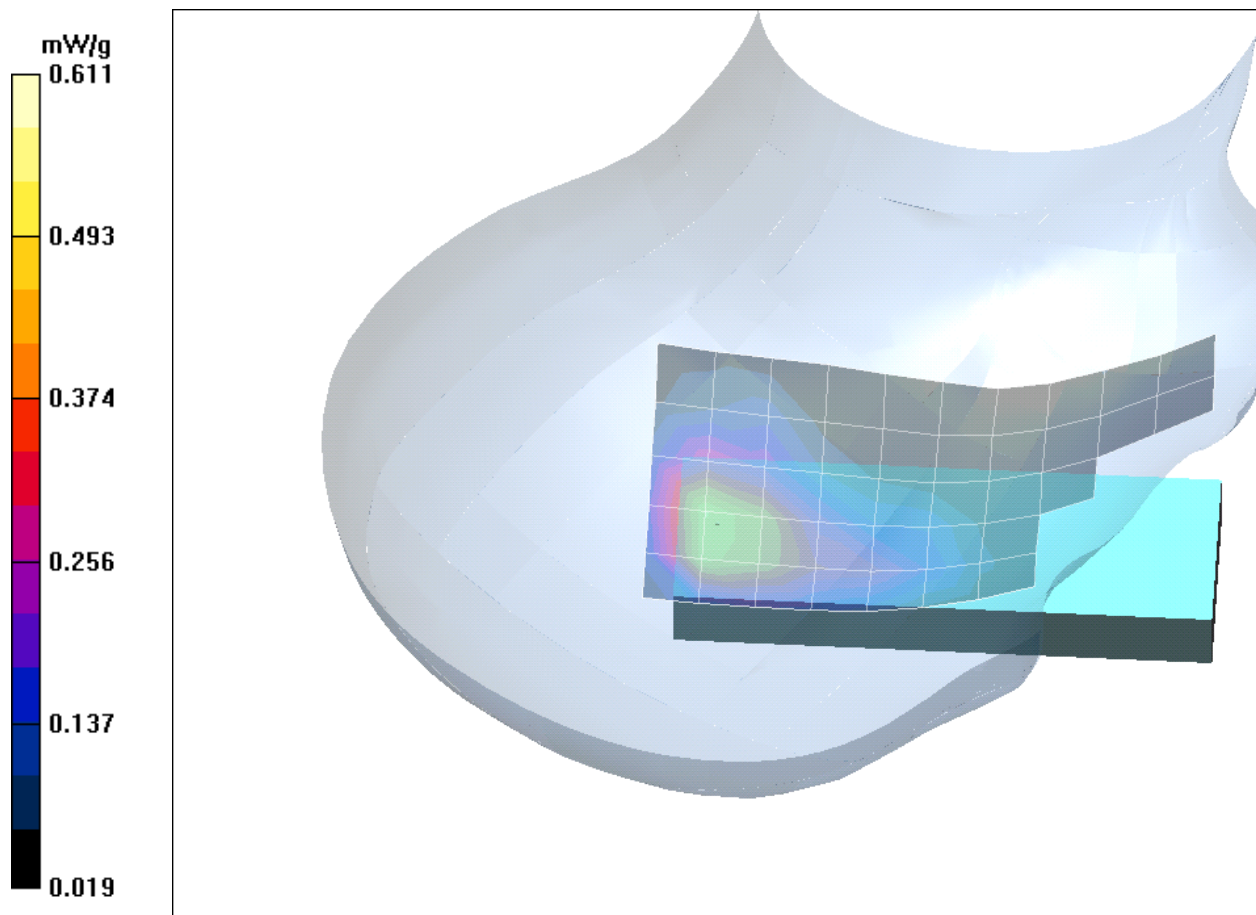


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (04.15.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yprm 2 flash.da4](#)

DUT: Siemens; **Type:** Cx75 flash; **Serial:** 004400009966696

Program Name: Tilted Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Right/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.437 mW/g

Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.546 mW/g

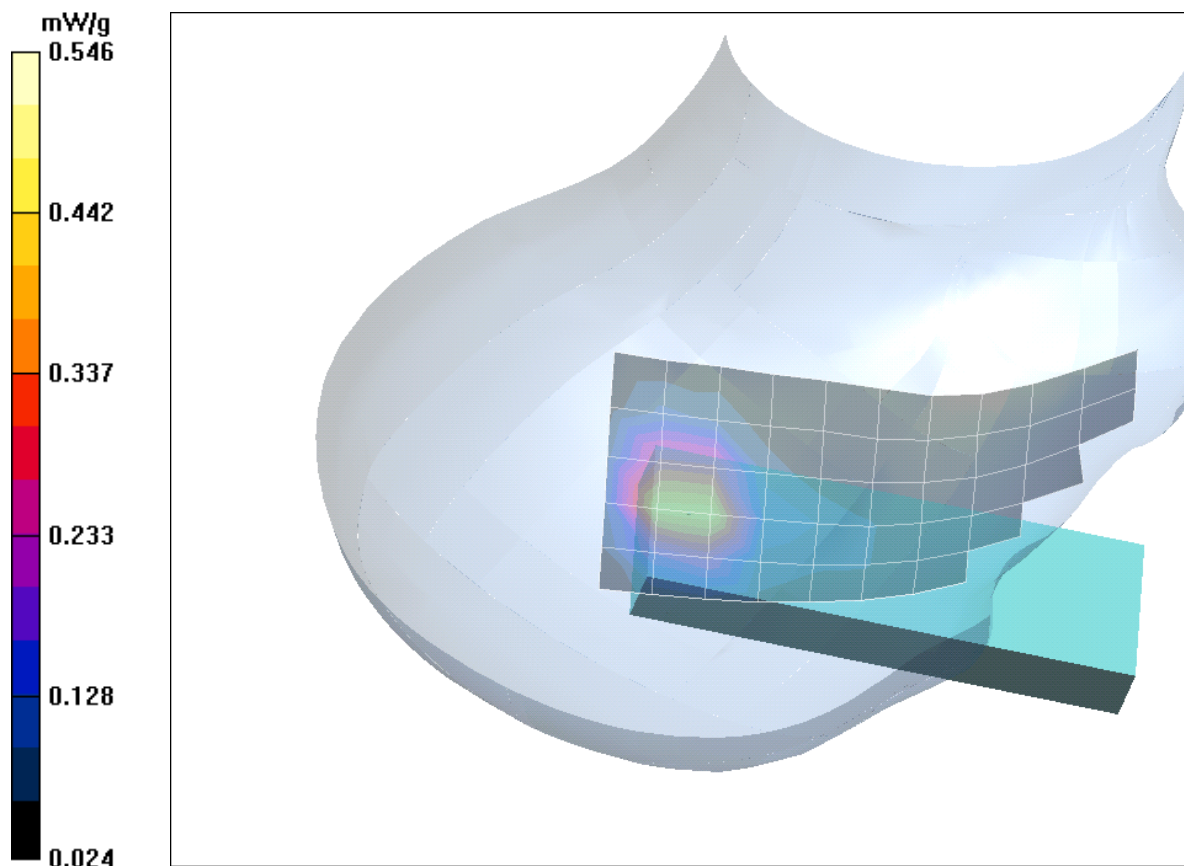


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (04.15.2005; Ambient Temperature: 22.1 °C; Liquid Temperature : 21.3° C)

3 SAR Distribution Plots, PCS 1900 head worst case with Bluetooth

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [696yprm_2 Headset.da4](#)

DUT: Siemens; Type: Cx75 ; Serial: 004400009966696

Program Name: Tilted Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.19, 8.19, 8.19); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Right/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.769 mW/g

Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.449 mW/g

Maximum value of SAR (measured) = 0.831 mW/g

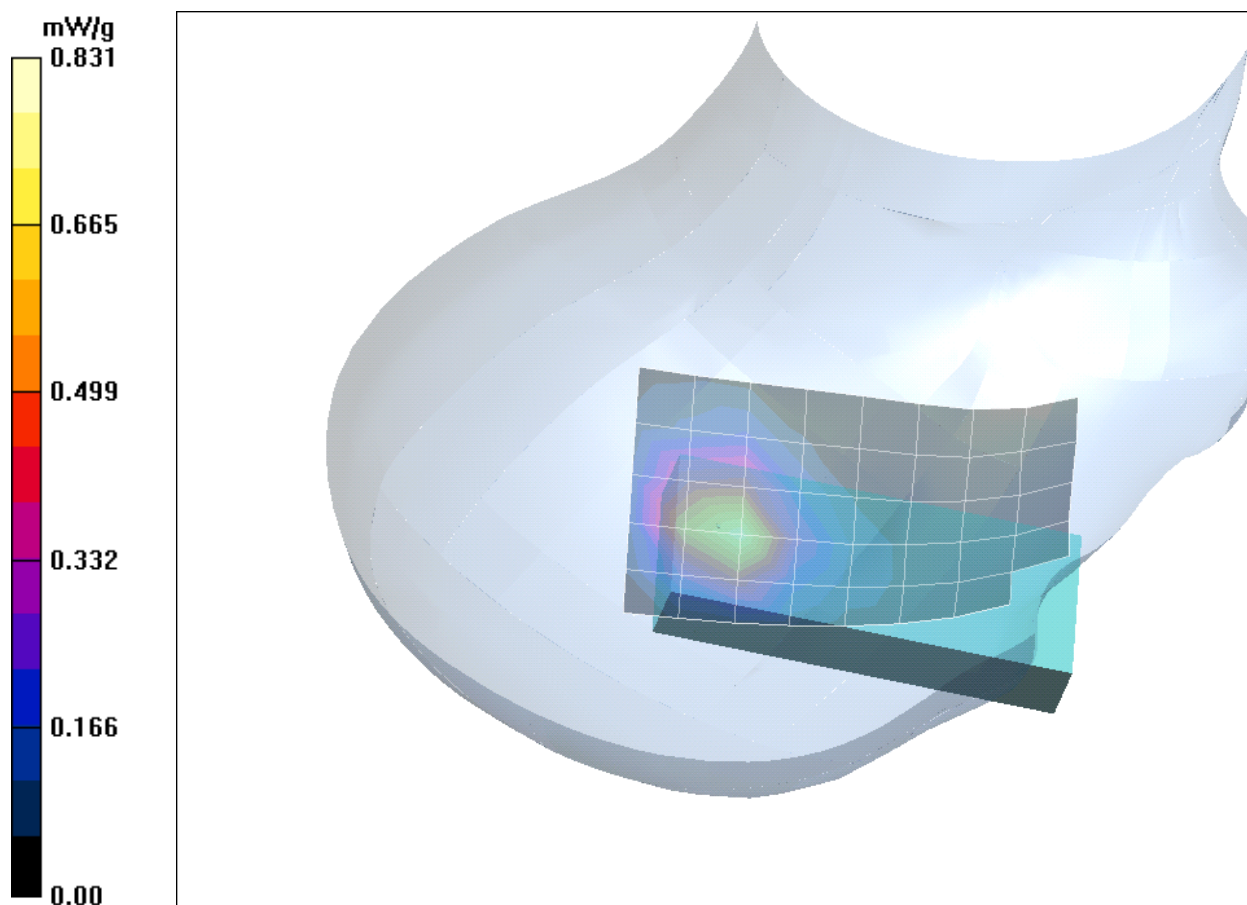


Fig. 9: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (04.15.2005; Ambient Temperature: 22.1 °C; Liquid Temperature : 21.3° C)

4 SAR Distribution Plots, PCS 1900 Body worn (gap = 22 mm)

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [696yphm_1.da4](#)

DUT: Siemens; Type: Cx75 ; Serial: 004400009966696

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Body Worn/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.197 mW/g

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

Reference Value = 5.41 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.109 mW/g

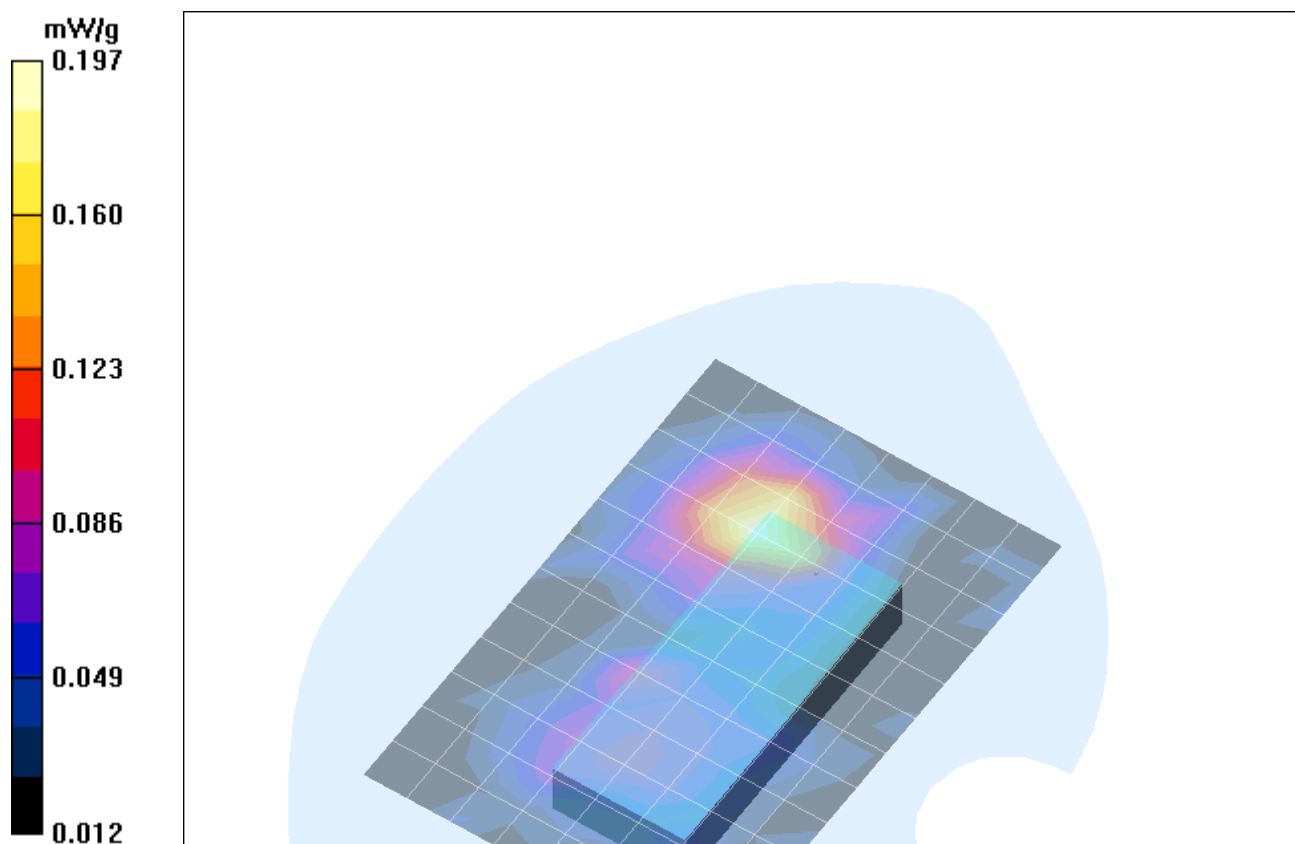


Fig. 10: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with headset, (04.15.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yphm_4_wdh.da4](#)

DUT: Siemens; **Type:** Cx75 ; **Serial:** 004400009966696

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.254 mW/g

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

Reference Value = 5.62 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.226 mW/g

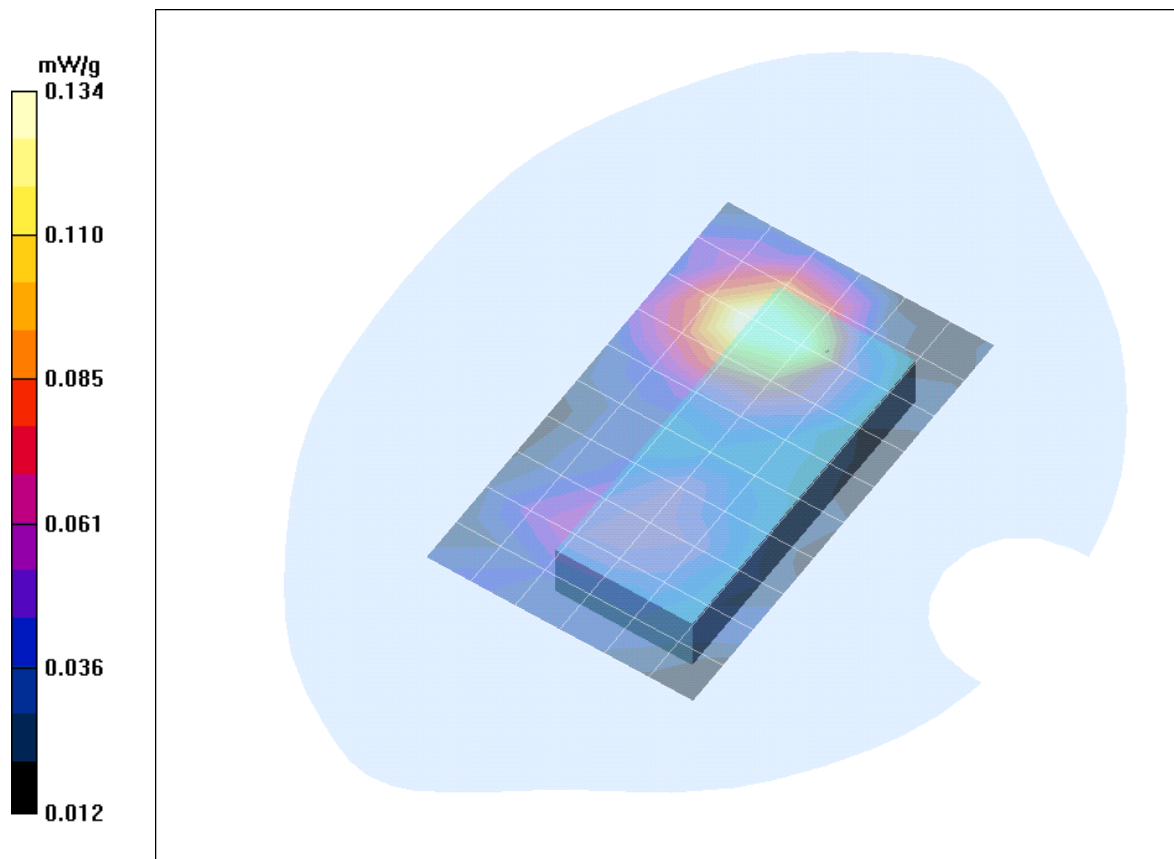


Fig. 11: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM, (04.15.2005; Ambient Temperature: 22.2° C; Liquid Temperature: 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yphm_4.da4](#)

DUT: Siemens; **Type:** Cx75 ; **Serial:** 004400009966696

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.175 mW/g

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

Reference Value = 5.19 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.204 mW/g

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

Reference Value = 5.19 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.134 mW/g

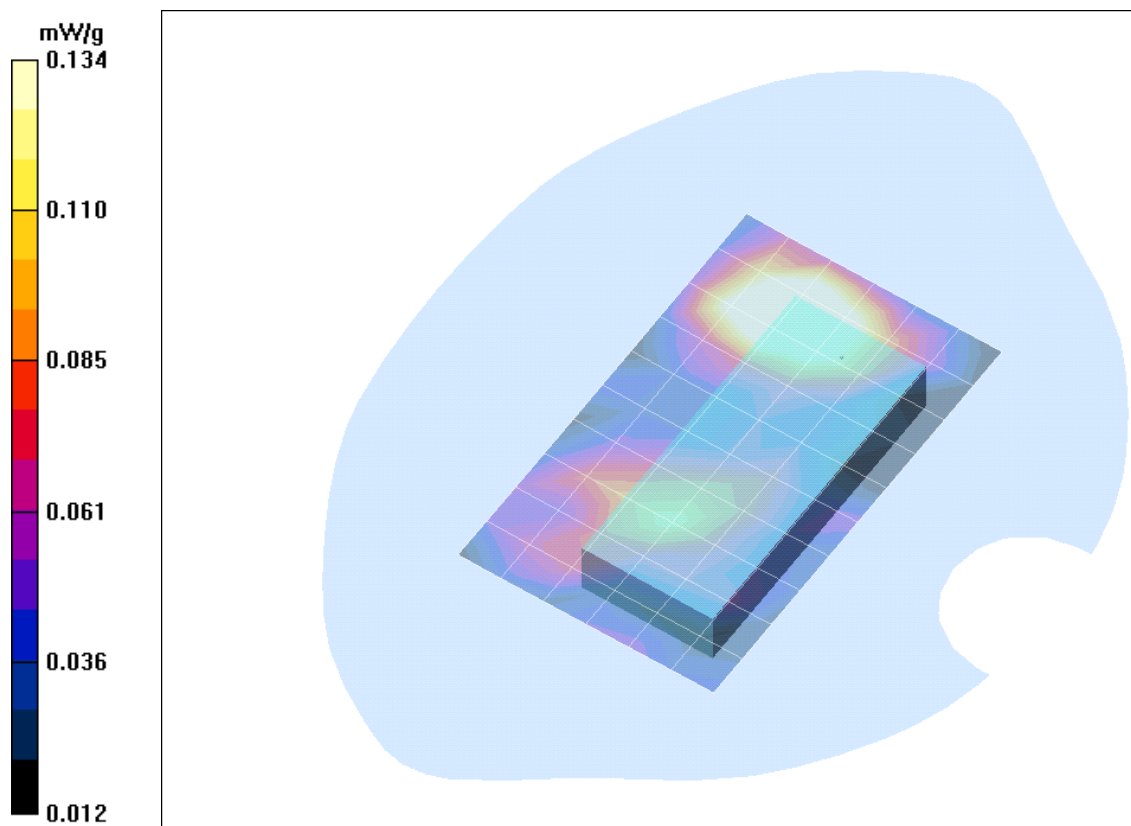


Fig. 12: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with activated Bluetooth, (04.15.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [696yphm_2.da4](#)

DUT: Siemens; **Type:** Cx75 ; **Serial:** 004400009966696, **Program Name:** Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 23.07.2004

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146 **Body Worn/Area Scan**

(7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.296 mW/g

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

Reference Value = 7.63 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.321 mW/g

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

Reference Value = 7.63 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.112 mW/g

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

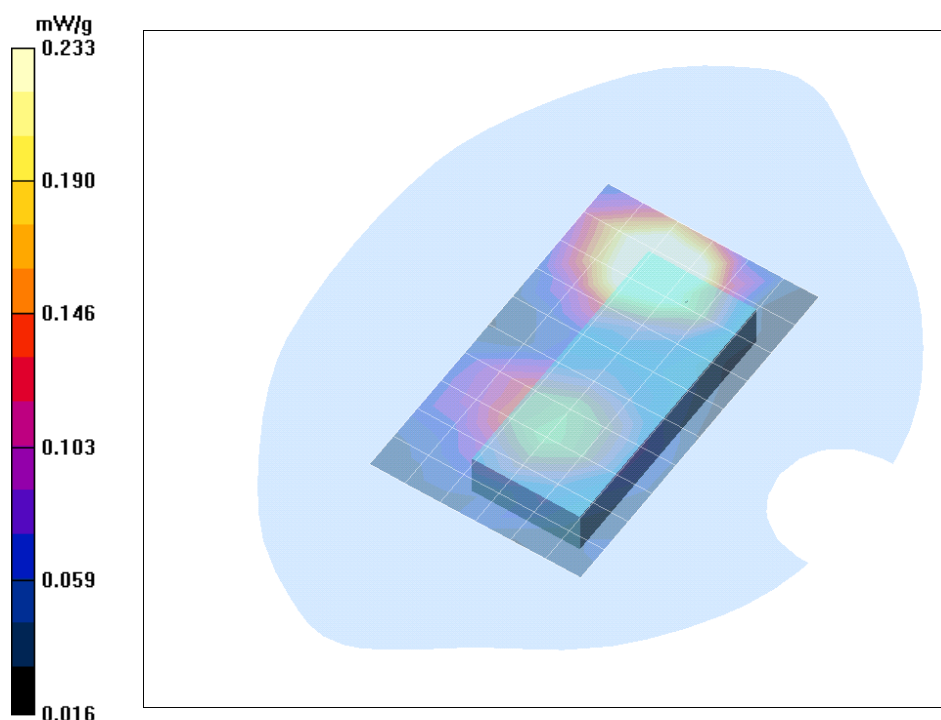


Fig. 13: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10, (04.15.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

5 SAR Distribution Plots, PCS 1900 Body worn, PTT (gap = 25 mm)

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [696yphm_5.da4](#)

DUT: Siemens; Type: Cx75 ; Serial: 004400009966696

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2004
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.197 mW/g

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

Reference Value = 6.18 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.221 mW/g

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

Reference Value = 6.18 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.291 W/kg

SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.180 mW/g

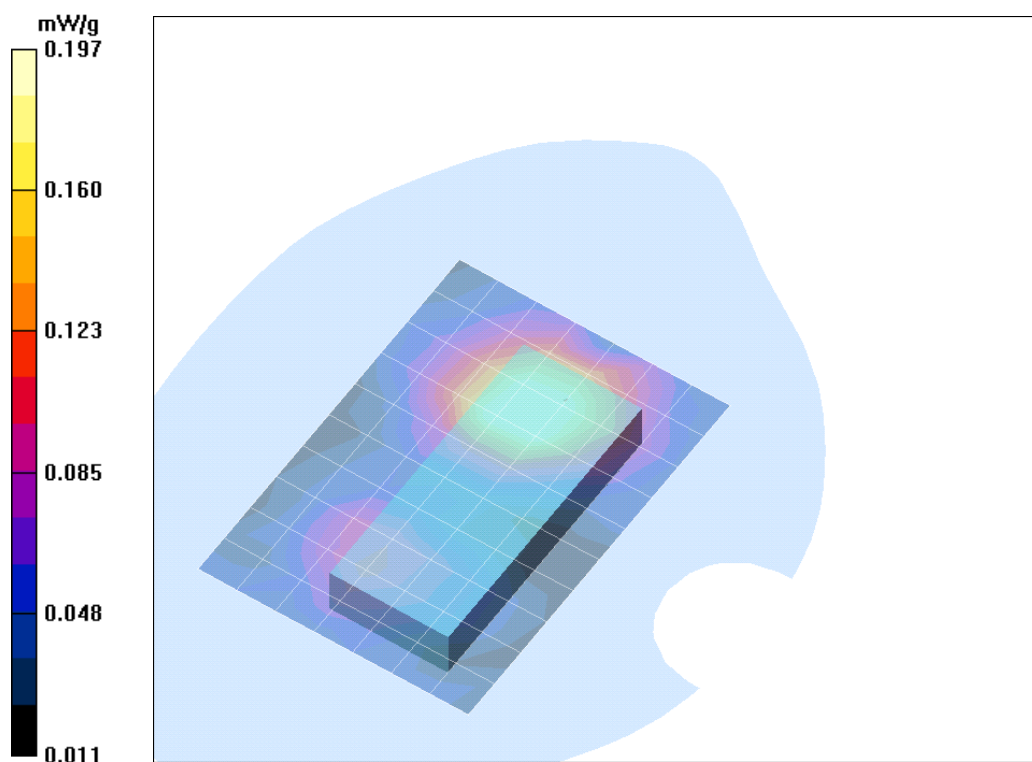


Fig. 14: SAR distribution for PCS 1900, channel 661, display towards the phantom, GPRS Class 10 (04.15.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.2° C).

6 SAR z-axis scans (Validation)

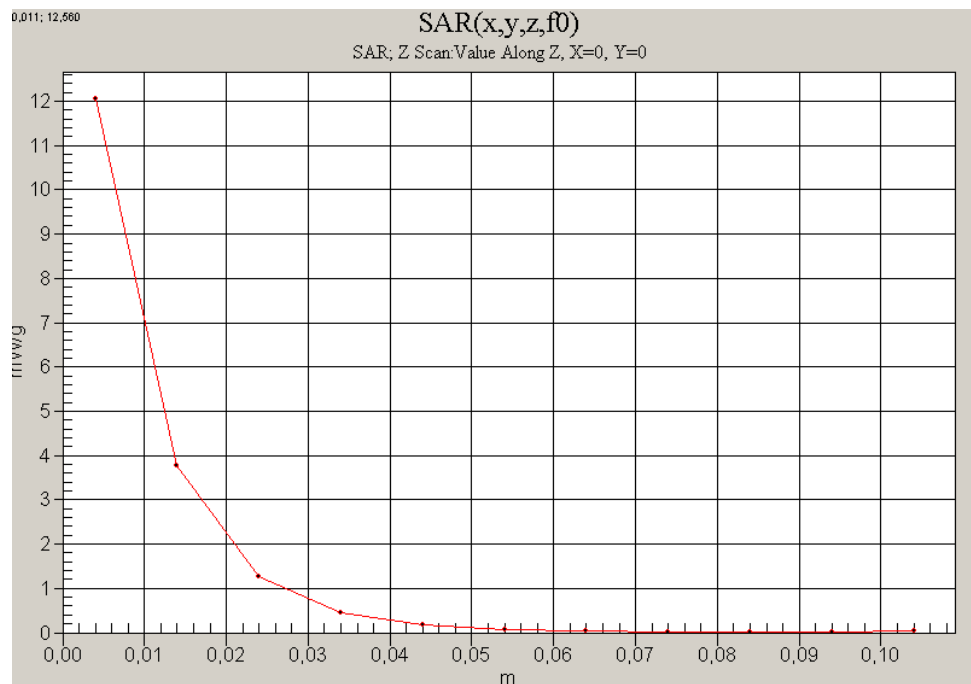


Fig. 15: SAR versus liquid depth, 1900 MHz, head (04.15.2005; Ambient Temperature: 22.4° C; Liquid Temperature : 21.2° C).

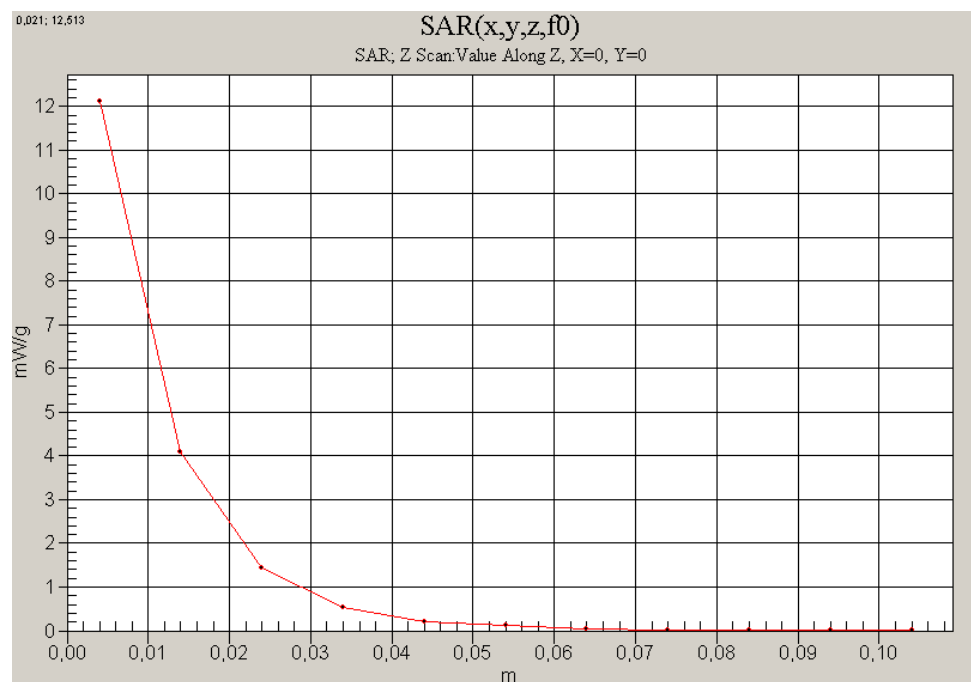


Fig. 16: SAR versus liquid depth, 1900 MHz, body (04.19.2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

7 SAR z-axis scans (Measurements)

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

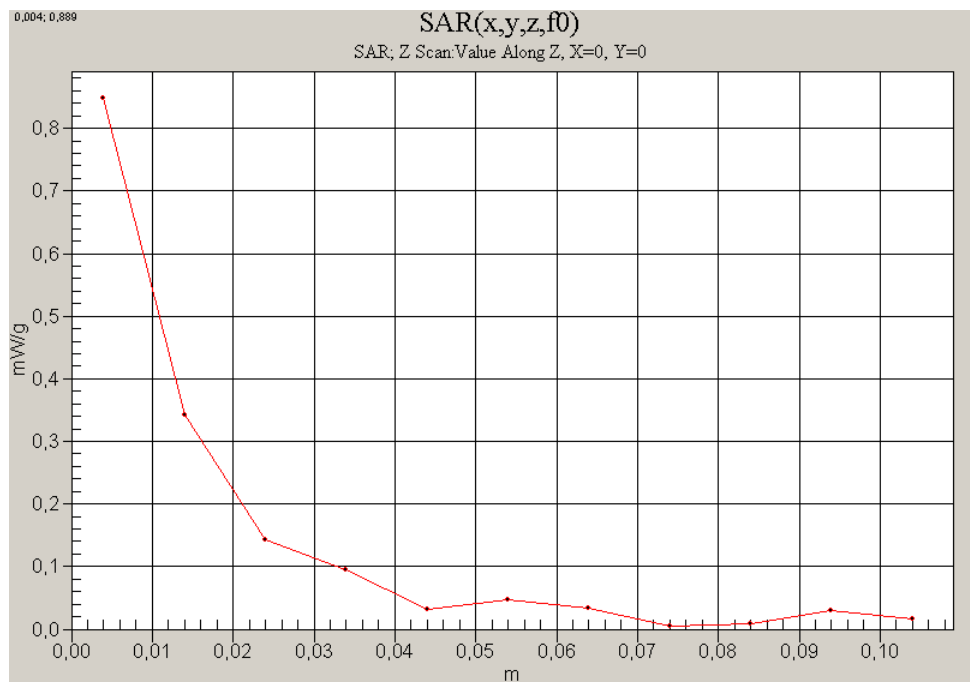


Fig. 17: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, right side of head without flash, with headset (04.15.2005, Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

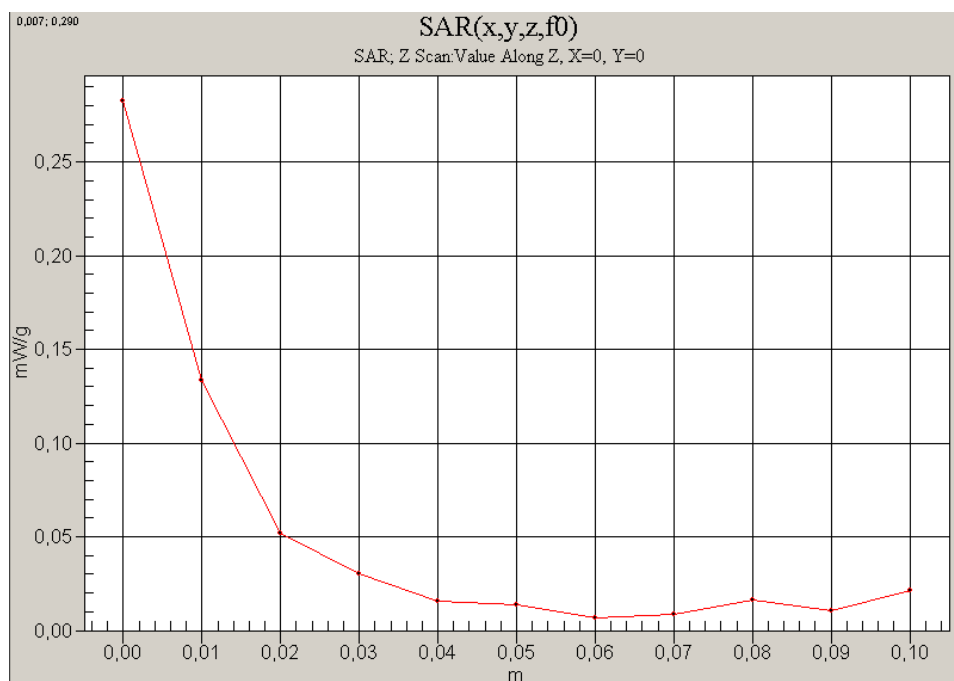


Fig. 18: SAR versus liquid depth, body: PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10, (04.19.2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).