
Appendix for the Report

Dosimetric Assessment of the Siemens A76 (FCC ID: PWX-A71)

According to the FCC Requirements

SAR Distribution Plots

July 05, 2005
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The test results only relate to the items tested.
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1 SAR Distribution Plots, GSM 850 Head

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [746yalm_1.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792;

Program Name: Cheek Left

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn906; Calibrated: 16.12.2004

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

- 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) = 0.892 mW/g;

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 28.1 V/m; Power Drift = -0.103 dB; Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.580 mW/g

Maximum value of SAR (measured) = 0.885 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 28.1 V/m; Power Drift = -0.103 dB; Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.740 mW/g; SAR(10 g) = 0.517 mW/g

Maximum value of SAR (measured) = 0.850 mW/g

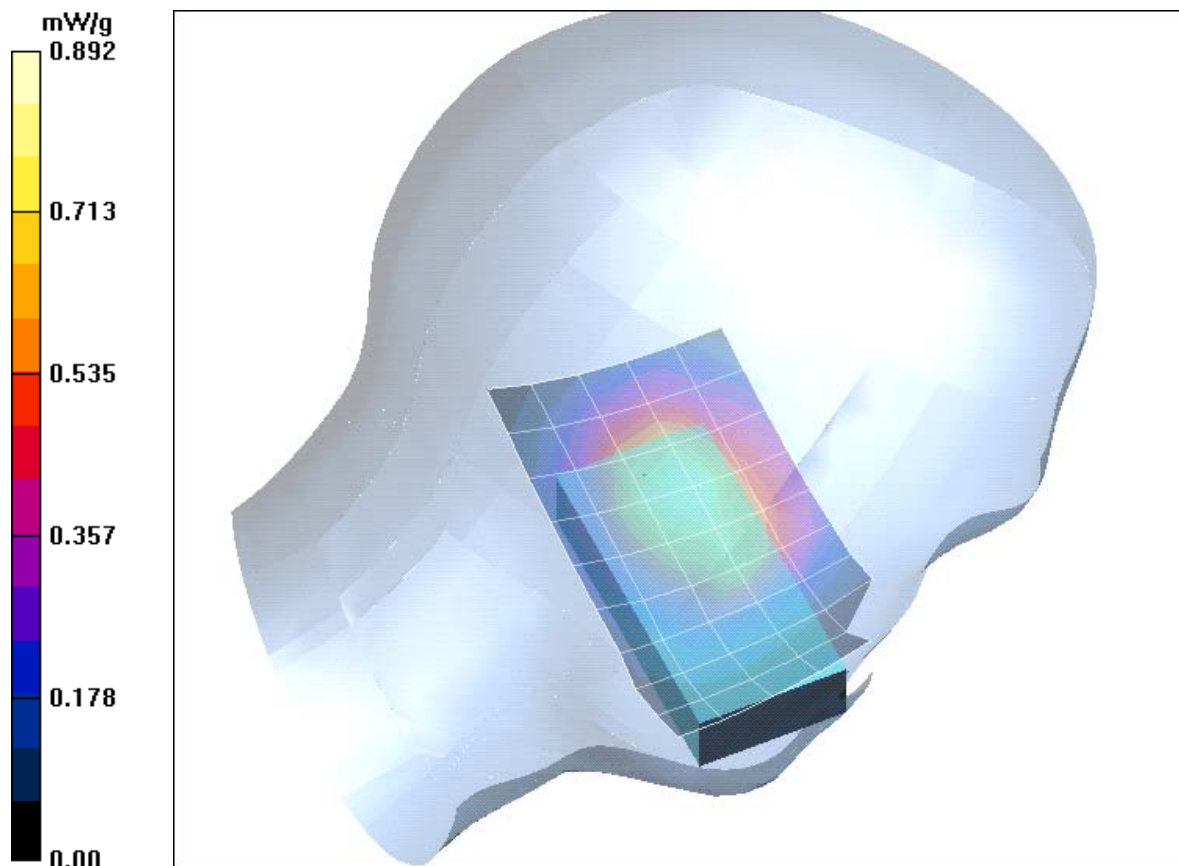


Fig. 1: SAR distribution for GSM 850, channel 190, cheek position, left side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature: 21.8° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [792yalm 2.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Tilted Left

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn906; Calibrated: 16.12.2004
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.691 mW/g

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

Reference Value = 26.7 V/m; Power Drift = 0.012 dB; Peak SAR (extrapolated) = 0.850 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.446 mW/g

Maximum value of SAR (measured) = 0.685 mW/g

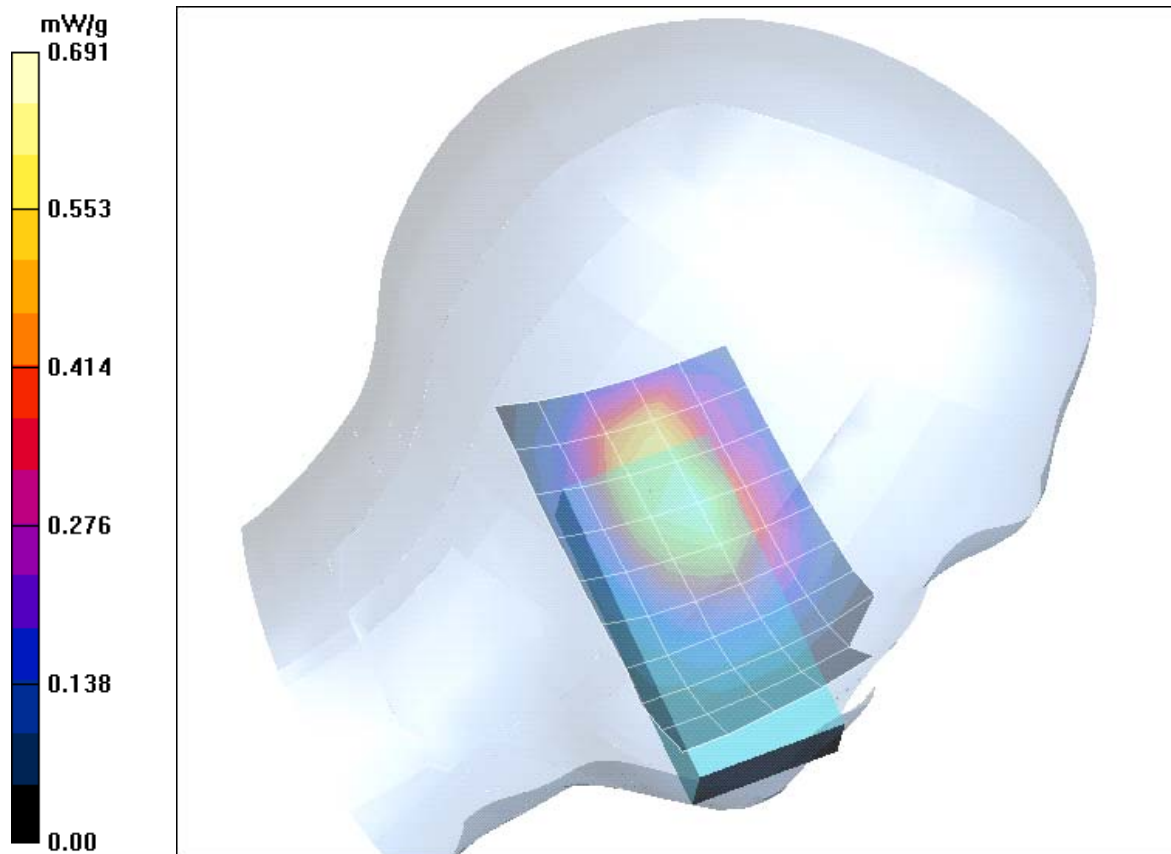


Fig. 2: SAR distribution for GSM 850, channel 190, tilted position, left side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [792yarm_1.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Cheek Right

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn906; Calibrated: 16.12.2004
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- 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) = 0.819 mW/g

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

Reference Value = 27.7 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.823 mW/g; SAR(10 g) = 0.570 mW/g

Maximum value of SAR (measured) = 0.881 mW/g

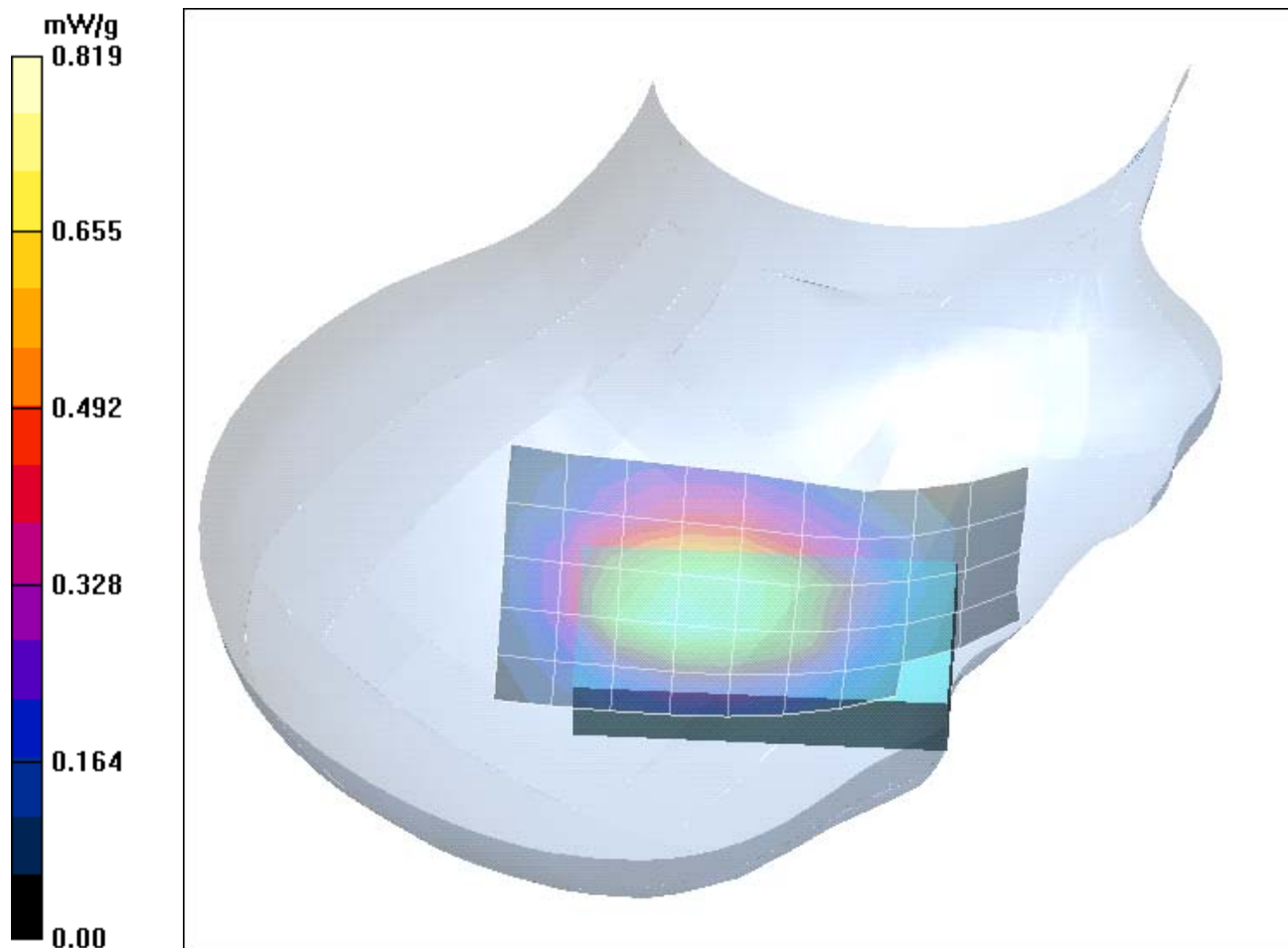


Fig. 3: SAR distribution for GSM 850, channel 190, cheek position, right side of head (July 01, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.7° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [792yarm_2.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Tilted Right

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn906; Calibrated: 16.12.2004

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

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

Value = 26.5 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.872 W/kg

SAR(1 g) = 0.645 mW/g; SAR(10 g) = 0.445 mW/g

Maximum value of SAR (measured) = 0.685 mW/g

Tilted Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference

Value = 26.5 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.617 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.676 mW/g

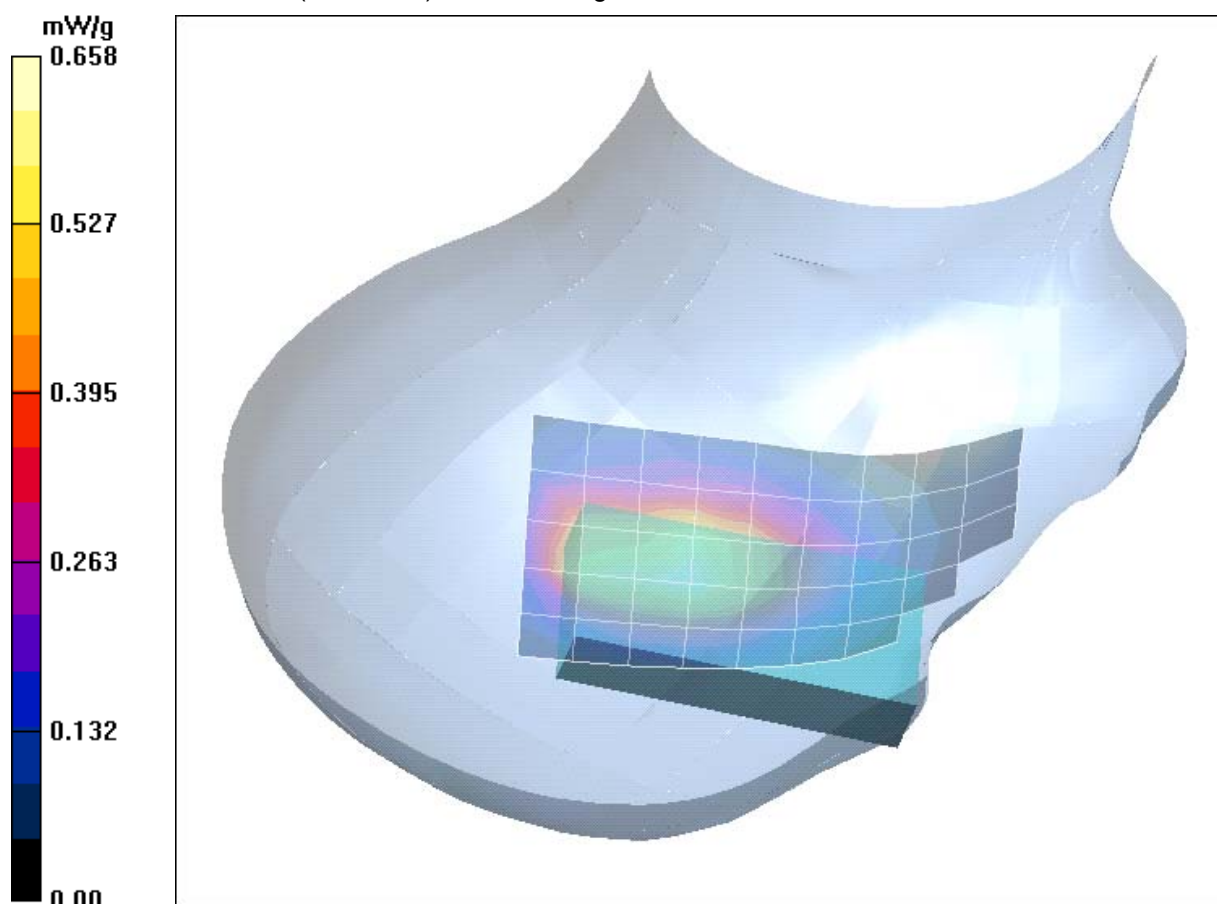


Fig. 4: SAR distribution for GSM 850, channel 190, tilted position, right side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [792yall_1.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Cheek Left

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn906; Calibrated: 16.12.2004

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

- 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) = 0.901 mW/g

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

Value = 29.0 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.588 mW/g

Maximum value of SAR (measured) = 0.894 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference

Value = 29.0 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.527 mW/g

Maximum value of SAR (measured) = 0.851 mW/g

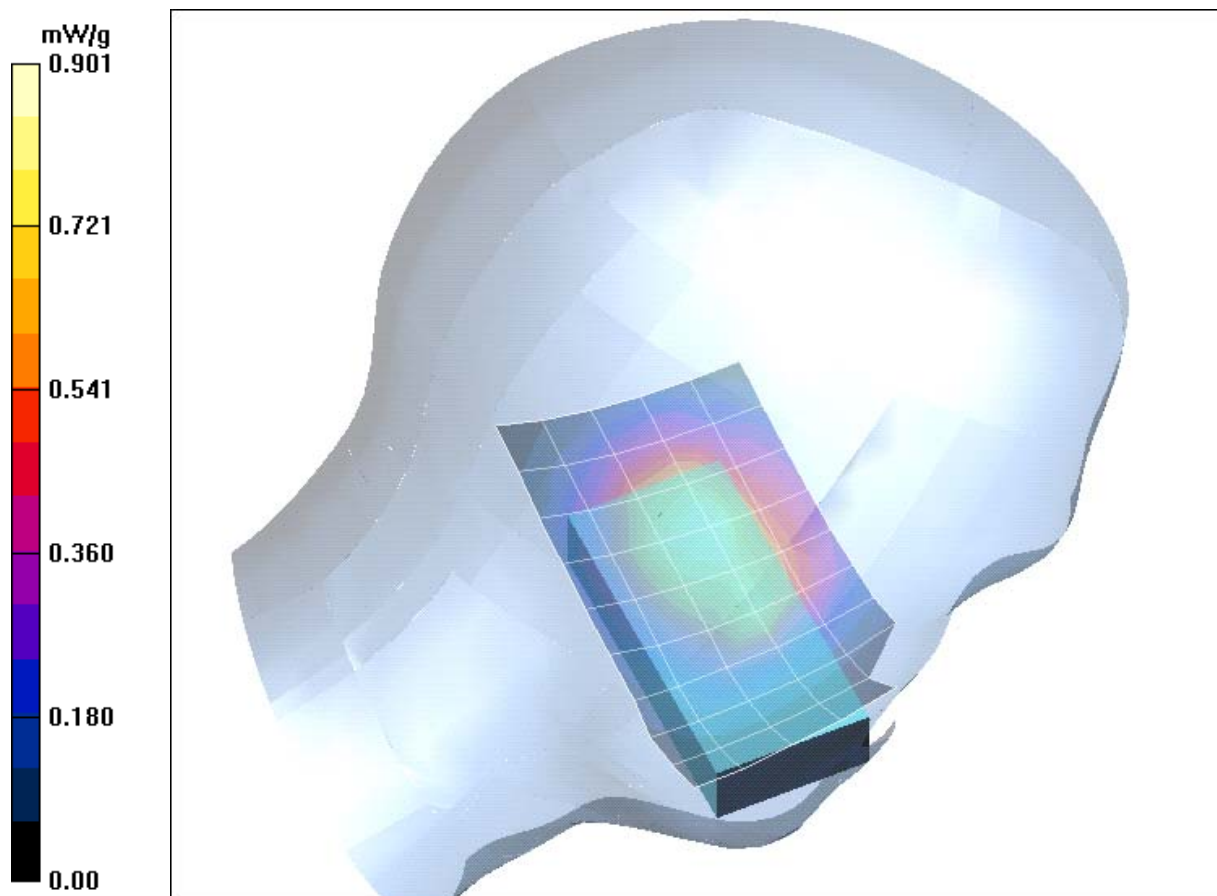


Fig. 5: SAR distribution for GSM 850, channel 128, cheek position, left side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.7° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [792yalh_1.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Cheek Left

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn906; Calibrated: 16.12.2004

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.697 mW/g

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

Value = 24.7 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.467 mW/g

Maximum value of SAR (measured) = 0.709 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm; Reference

Value = 24.7 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.952 W/kg

SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 0.677 mW/g

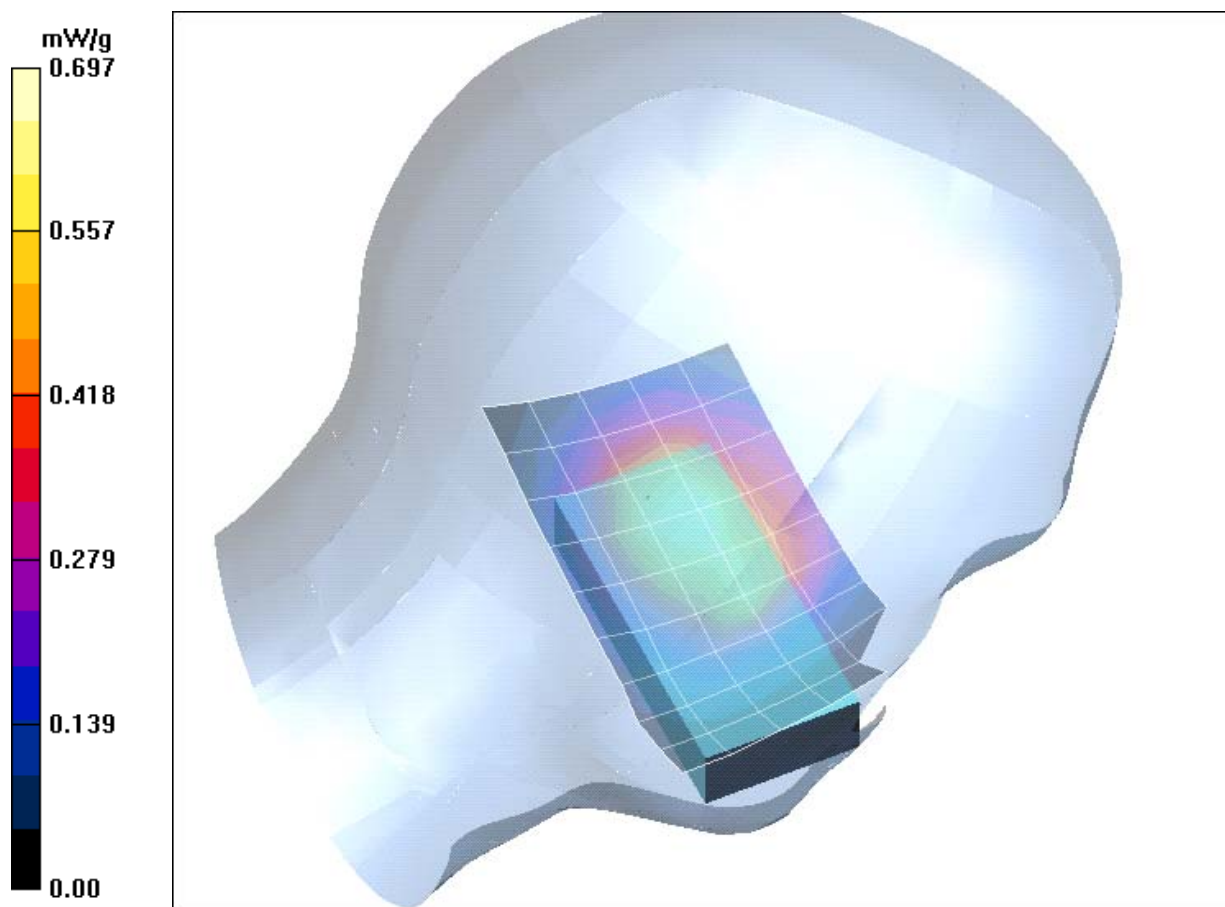


Fig. 6: SAR distribution for GSM 850, channel 251, cheek position, left side of head (July 01, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.7° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [792yarl_1.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Cheek Right

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn906; Calibrated: 16.12.2004

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

- 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) = 0.879 mW/g

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

Reference Value = 28.1 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.861 mW/g; SAR(10 g) = 0.594 mW/g

Maximum value of SAR (measured) = 0.915 mW/g

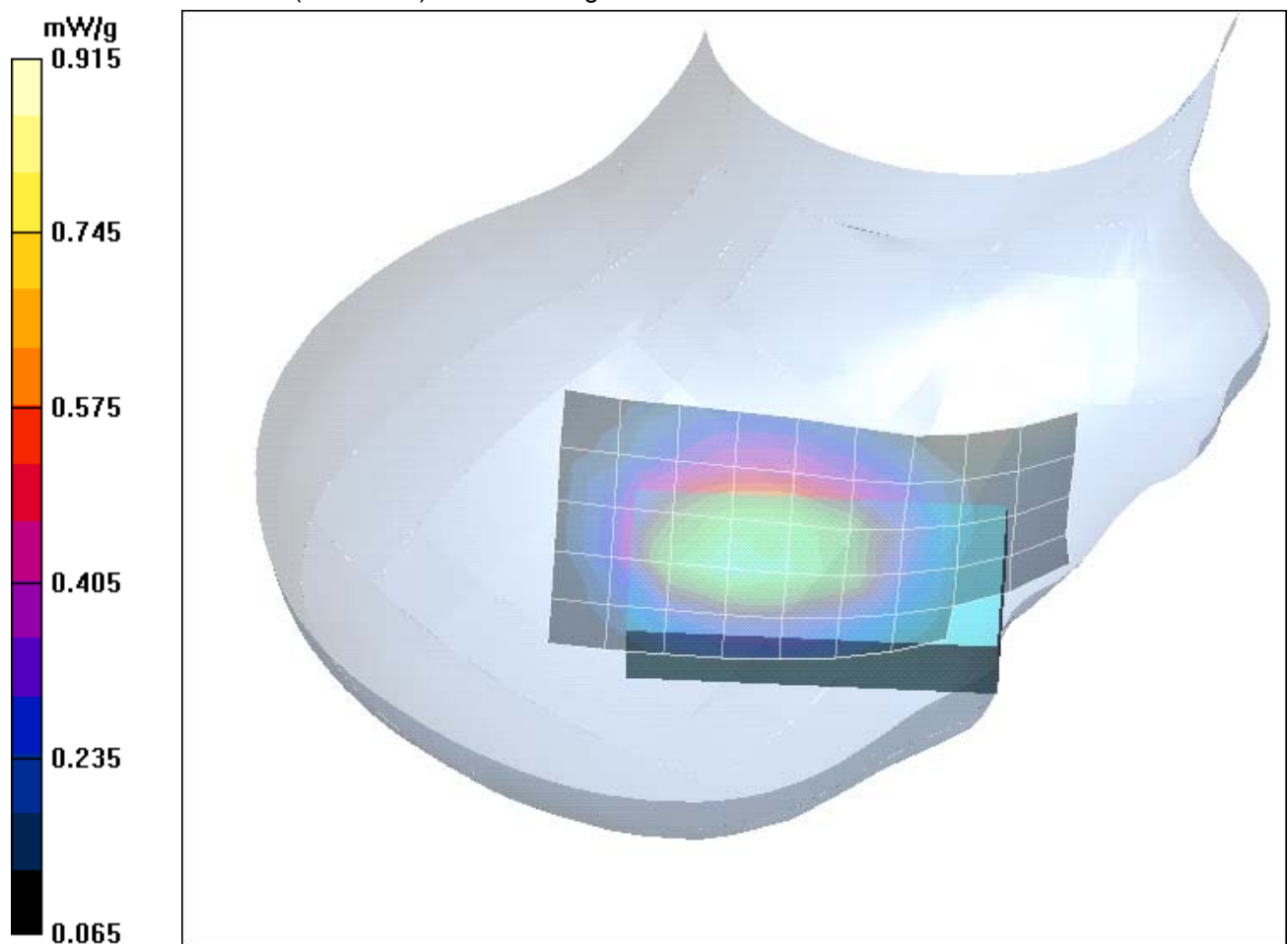


Fig. 7: SAR distribution for GSM 850, channel 128, cheek position, right side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [792yarh_1.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Cheek Right

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.88, 9.88, 9.88); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn906; Calibrated: 16.12.2004

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

- 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) = 0.646 mW/g

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

Reference Value = 24.0 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.974 W/kg

SAR(1 g) = 0.638 mW/g; SAR(10 g) = 0.439 mW/g

Maximum value of SAR (measured) = 0.678 mW/g

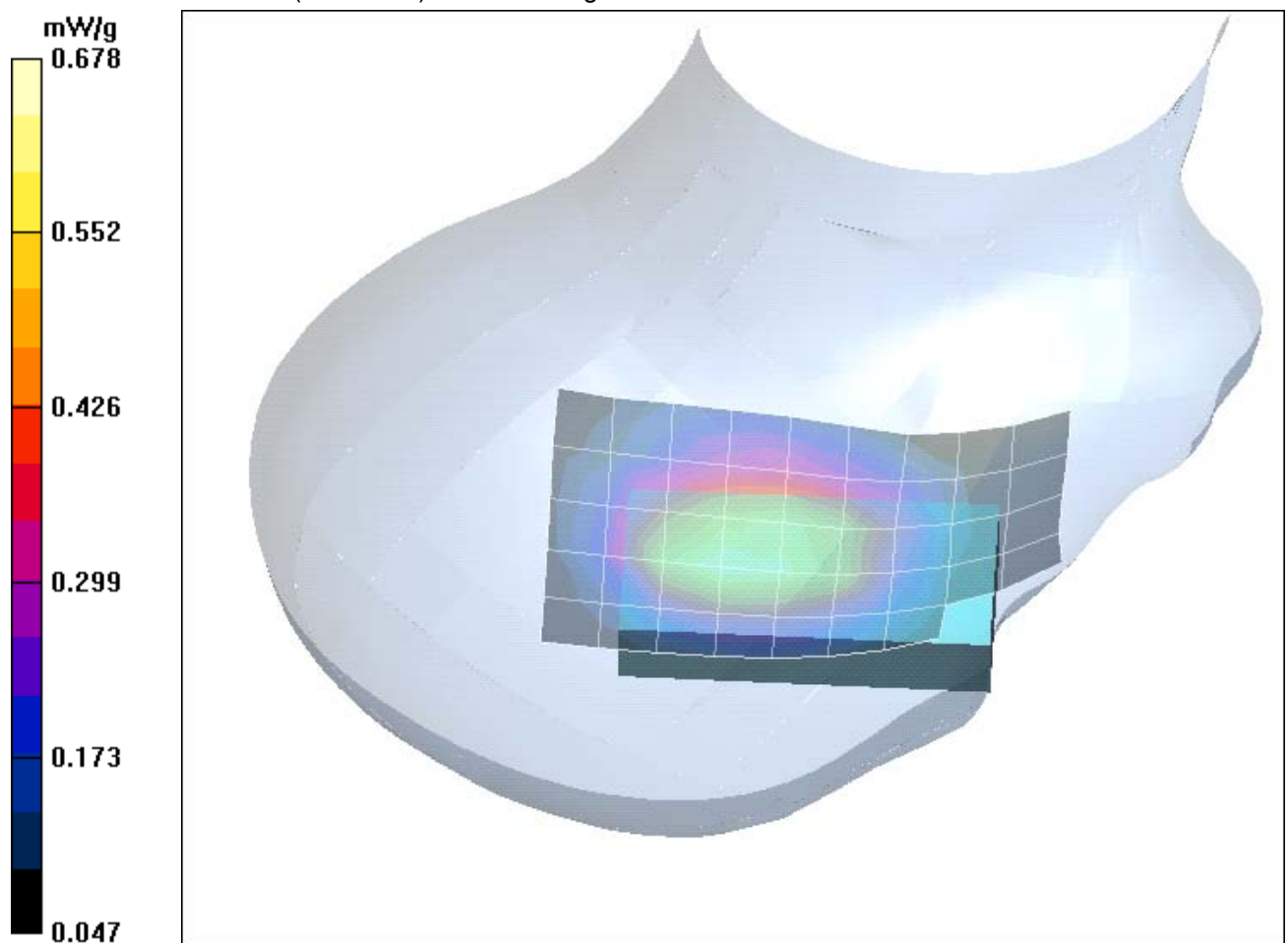


Fig. 8: SAR distribution for GSM 850, channel 251, cheek position, right side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

2 SAR Distribution Plots, PCS 1900 Head

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [792bplm_1.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- 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) = 0.314 mW/g

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

Reference Value = 16.0 V/m; Power Drift = 0.024 dB; Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.181 mW/g

Maximum value of SAR (measured) = 0.329 mW/g

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

Reference Value = 16.0 V/m; Power Drift = 0.024 dB; Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.126 mW/g

Maximum value of SAR (measured) = 0.222 mW/g

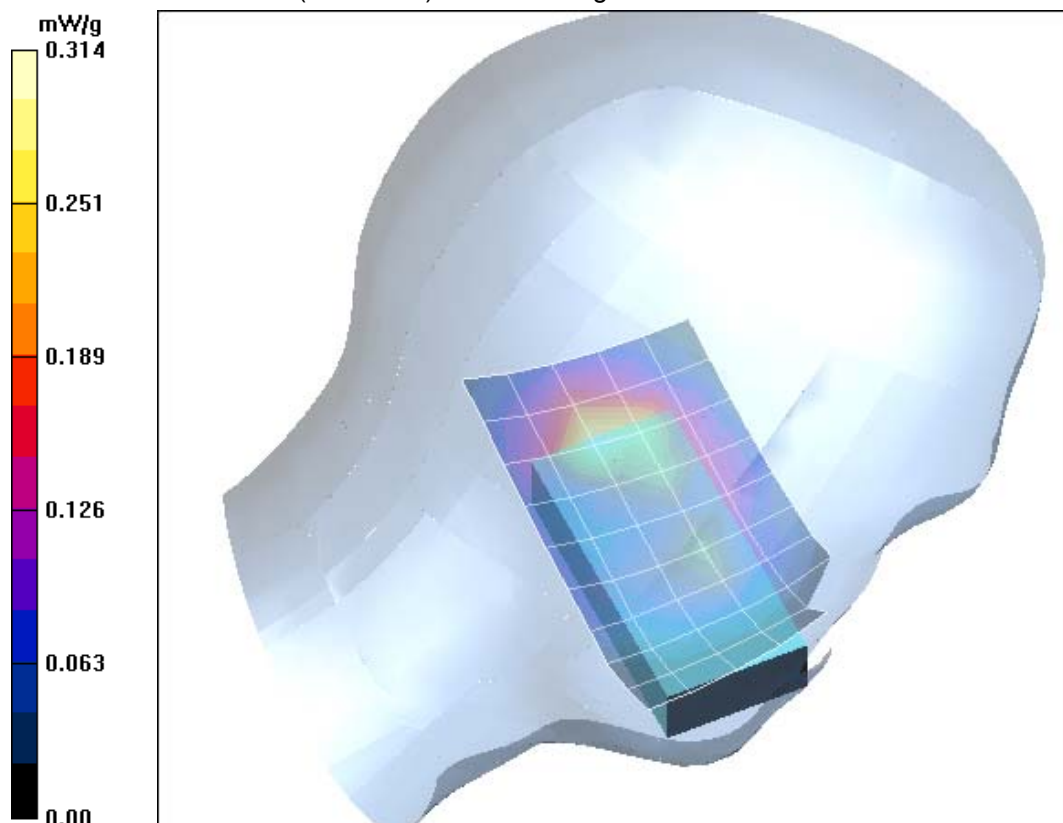


Fig. 9: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (July 04, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [792bplm_2.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.330 mW/g

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

Reference Value = 15.7 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.188 mW/g

Maximum value of SAR (measured) = 0.365 mW/g

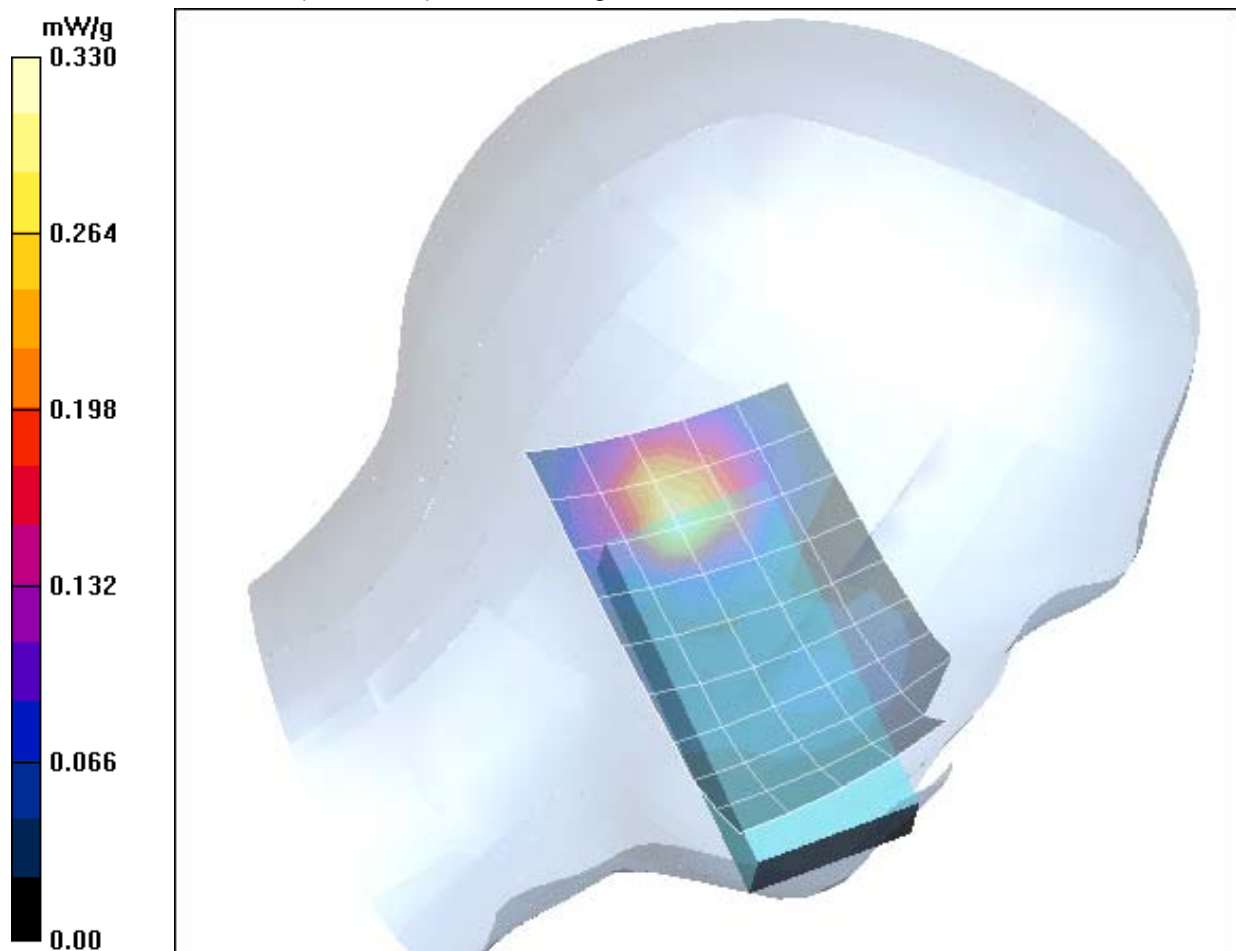


Fig. 10: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (July 04, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [792bprm_1.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- 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) = 0.424 mW/g

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

Reference Value = 12.9 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.814 W/kg

SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.507 mW/g

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

Reference Value = 12.9 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.262 mW/g

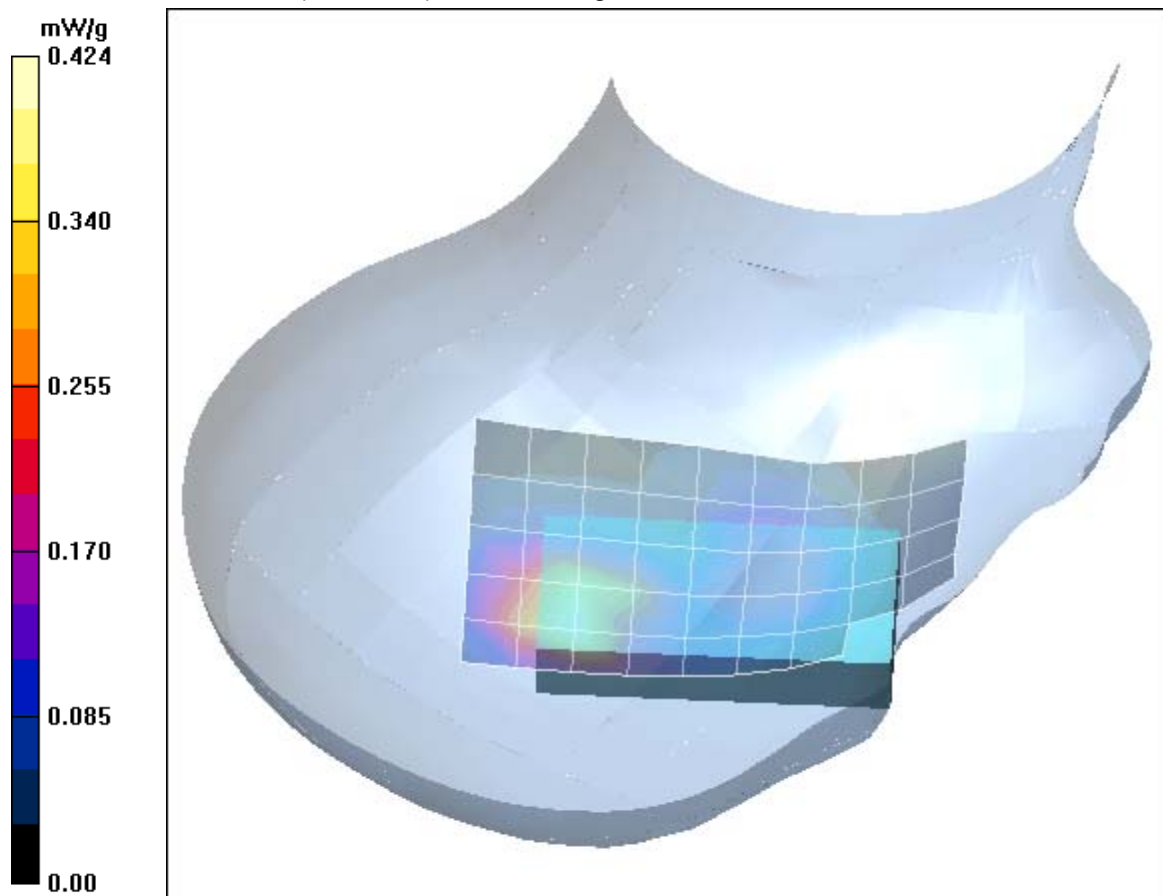


Fig. 11: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (July 04, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.9° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [792bprm_2.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 05.08.2004
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.426 mW/g

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

Reference Value = 12.5 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.527 mW/g

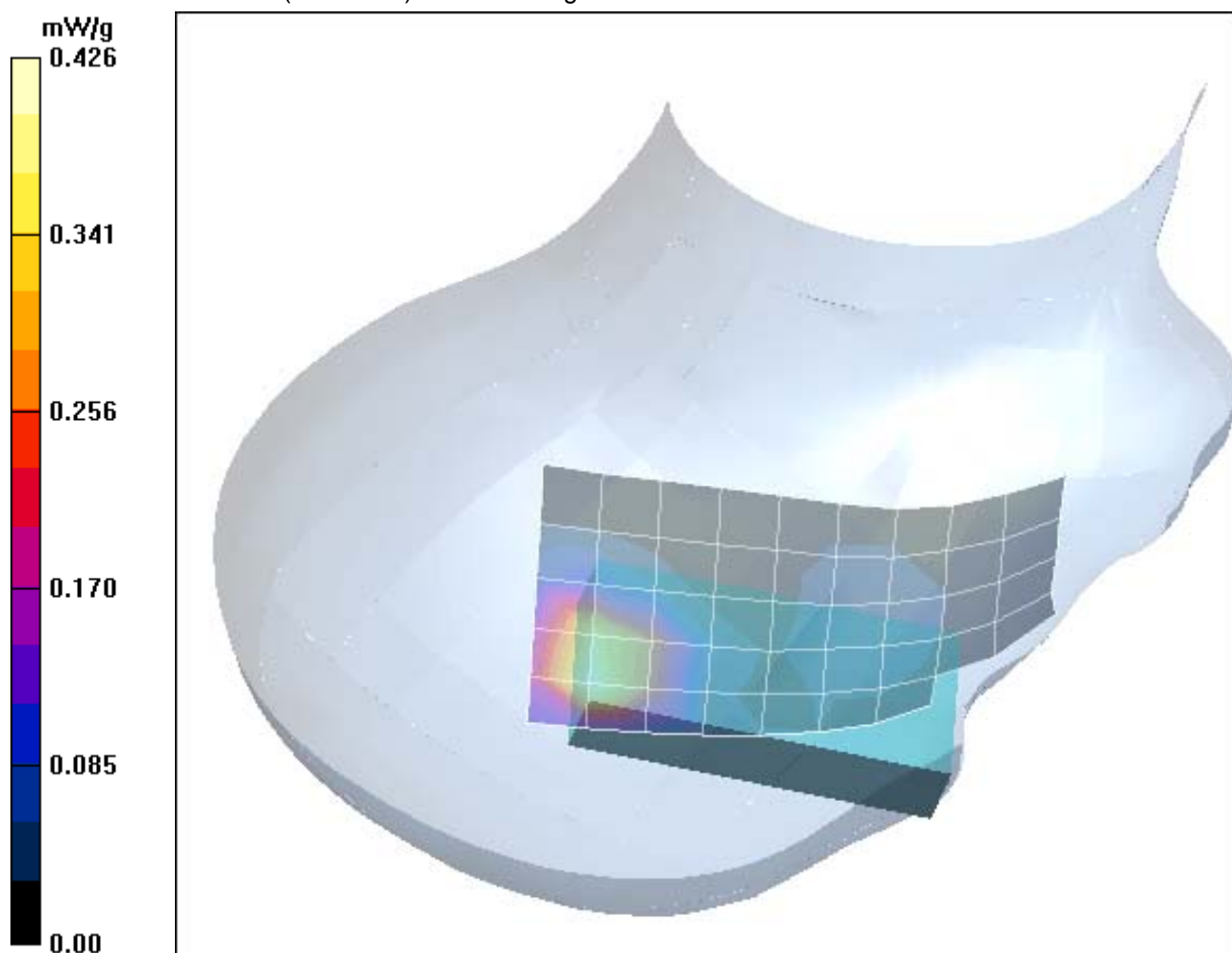


Fig. 12: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (July 04, 2005; Ambient Temperature: 21.9 °C; Liquid Temperature : 21.8° C)

3 SAR Distribution Plots, GSM 850 Body with headset in GSM mode

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [792bahm_7.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Body Worn

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.39, 6.39, 6.39); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- 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) = 0.554 mW/g

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

Reference Value = 24.5 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.802 W/kg

SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.362 mW/g

Maximum value of SAR (measured) = 0.574 mW/g

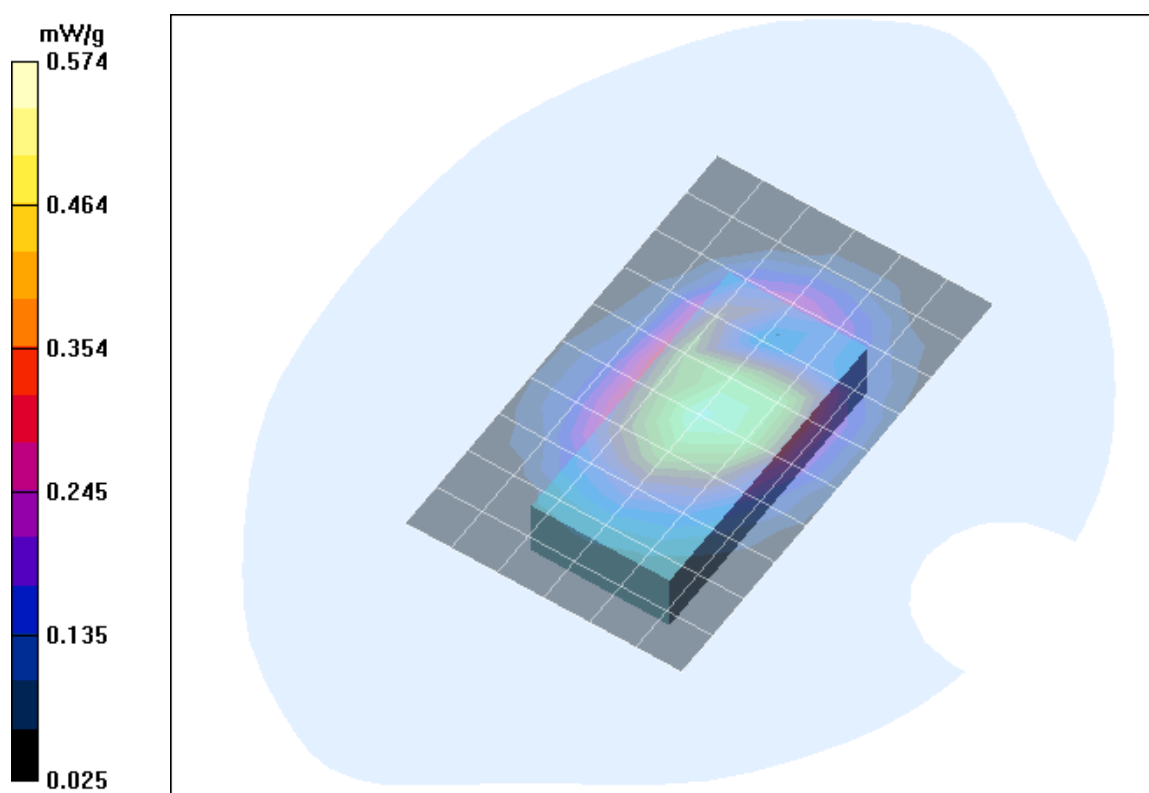


Fig. 13: SAR distribution for GSM 850, channel 190, body worn configuration, antenna towards the phantom, with headset and FCT 650 carry case with 10 mm distance (July 05, 2005; Ambient Temperature: 22.1° C; Liquid Temperature: 21.3° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [792bahm 8.da4](#)

DUT: Siemens; **Type:** A71; **Serial:** 004400002004792

Program Name: Body Worn

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.39, 6.39, 6.39); Calibrated: 13.01.2005

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

- Electronics: DAE3 Sn335; Calibrated: 17.03.2005

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

- 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) = 0.353 mW/g

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

Reference Value = 19.7 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.337 mW/g; SAR(10 g) = 0.226 mW/g

Maximum value of SAR (measured) = 0.361 mW/g

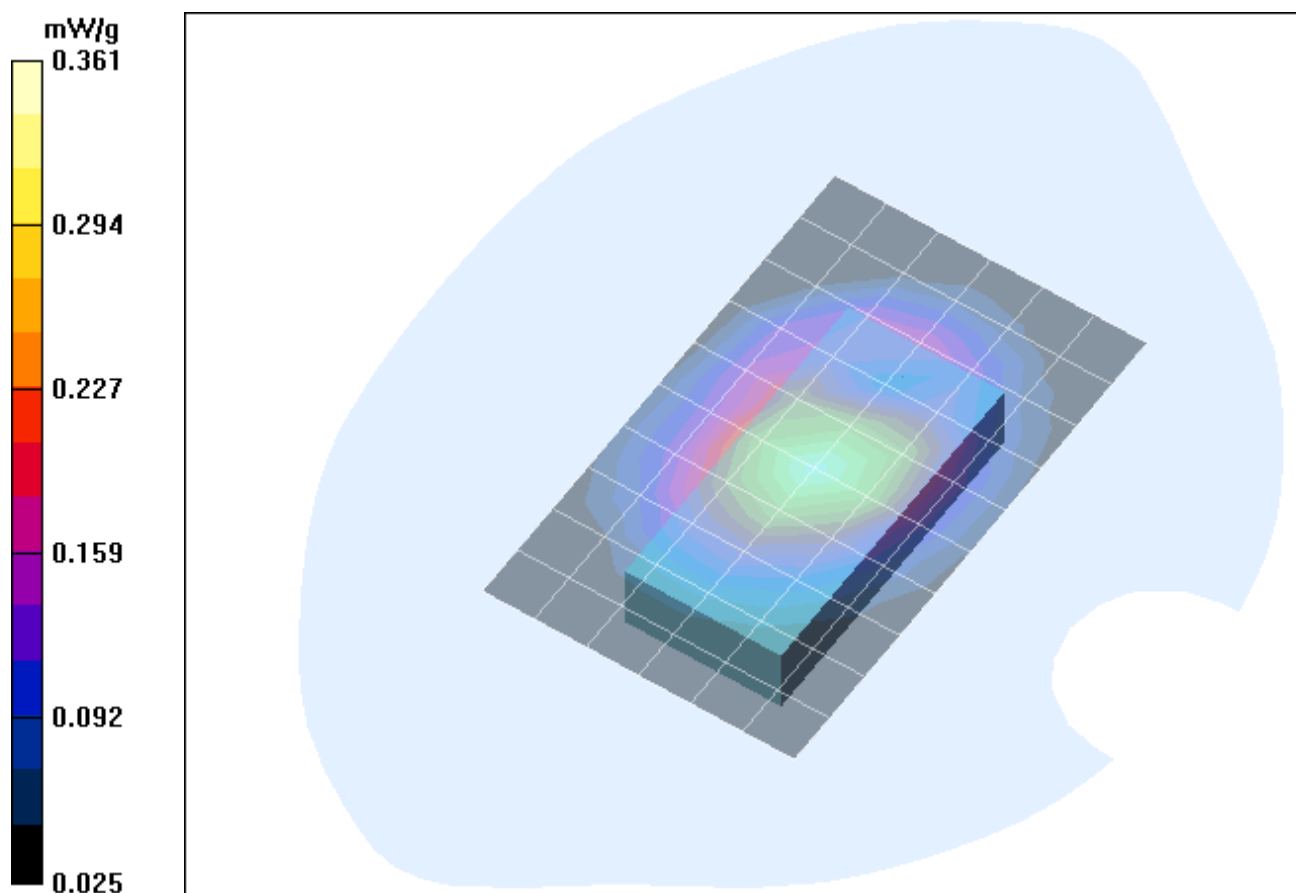


Fig. 14: SAR distribution for GSM 850, channel 190, body worn configuration, antenna towards the phantom, with headset and FCL 600 carry case with 13 mm distance (July 05, 2005; Ambient Temperature: 22.1° C; Liquid Temperature: 21.3° C).

4 SAR Distribution Plots, GSM 850 Body with data cable in GPRS mode

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [792bahm_9.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Body Worn; Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ;DASY4 Configuration:- Probe: ET3DV6R - SN1669; ConvF(6.39, 6.39, 6.39);

Calibrated: 13.01.2005

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

- Electronics: DAE3 Sn335; Calibrated: 17.03.2005

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

- 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) = 0.291 mW/g;

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

Reference Value = 18.0 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.193 mW/g

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

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

Reference Value = 18.0 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.209 mW/g

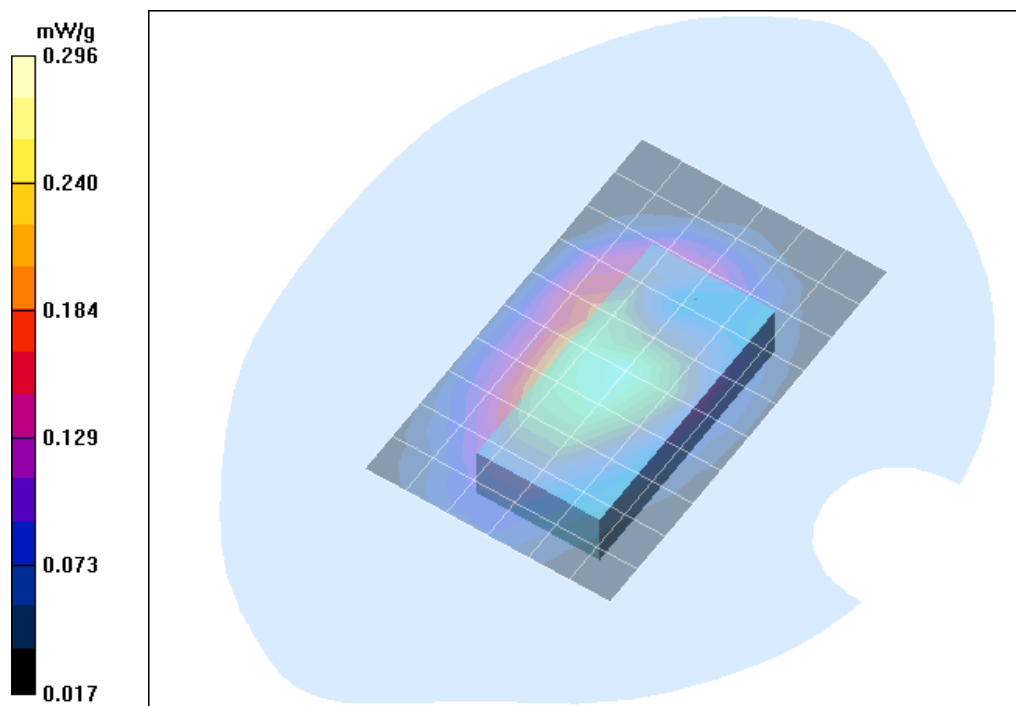


Fig. 15: SAR distribution for GPRS 850, channel 190, body worn configuration, antenna towards the phantom, with data cable and FCL 600 carry case with 13 mm distance (July 05, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

5 SAR Distribution Plots, PCS 1900 Body with headset in GSM mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [792yphm_7.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ 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 Sn906; Calibrated: 16.12.2004
- 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) = 0.715 mW/g

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

Reference Value = 19.1 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 0.962 W/kg

SAR(1 g) = 0.658 mW/g; SAR(10 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.708 mW/g

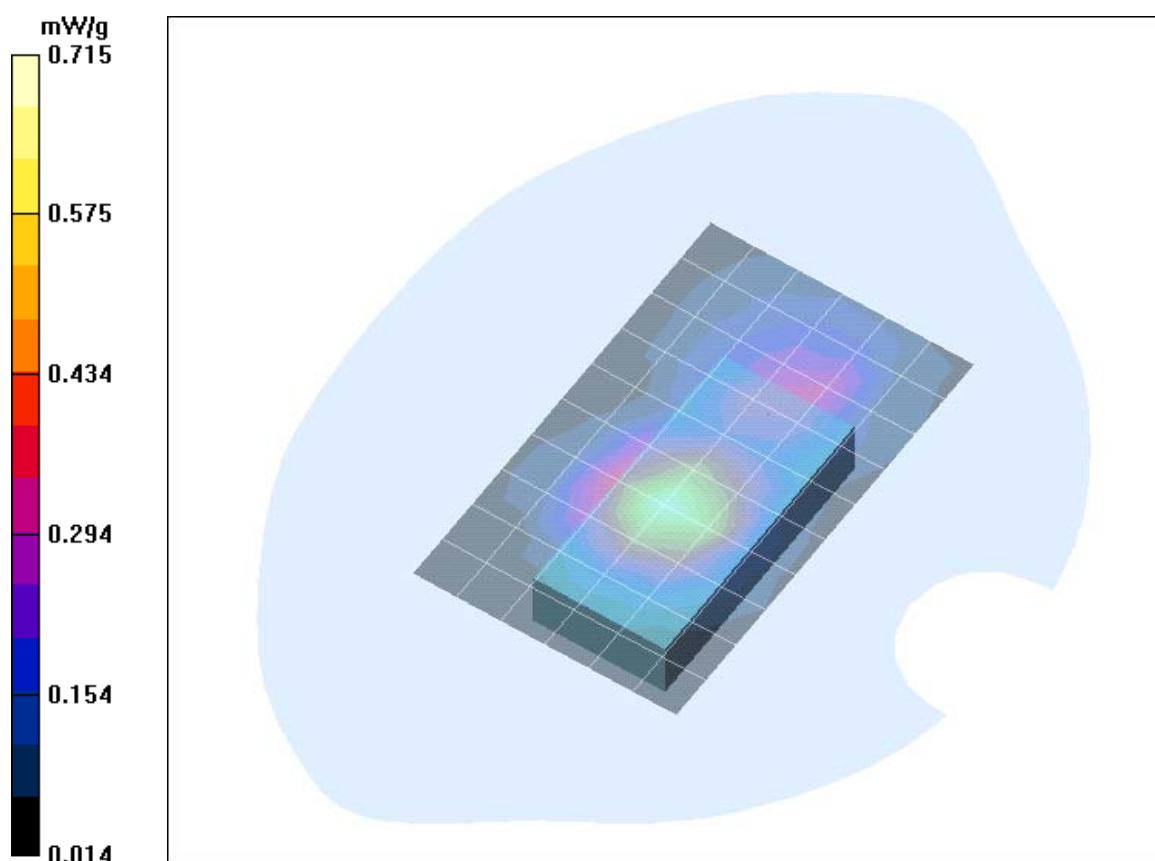


Fig. 16: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset and FCT 650 carry case with 10 mm distance (July 07, 2005; Ambient Temperature: 22° C; Liquid Temperature: 21.1° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [792yphm_8.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ 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 Sn906; Calibrated: 16.12.2004

- 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: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.392 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm; Reference Value = 13.2

V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.246 mW/g

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

Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm; Reference Value = 13.2

V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.188 mW/g

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

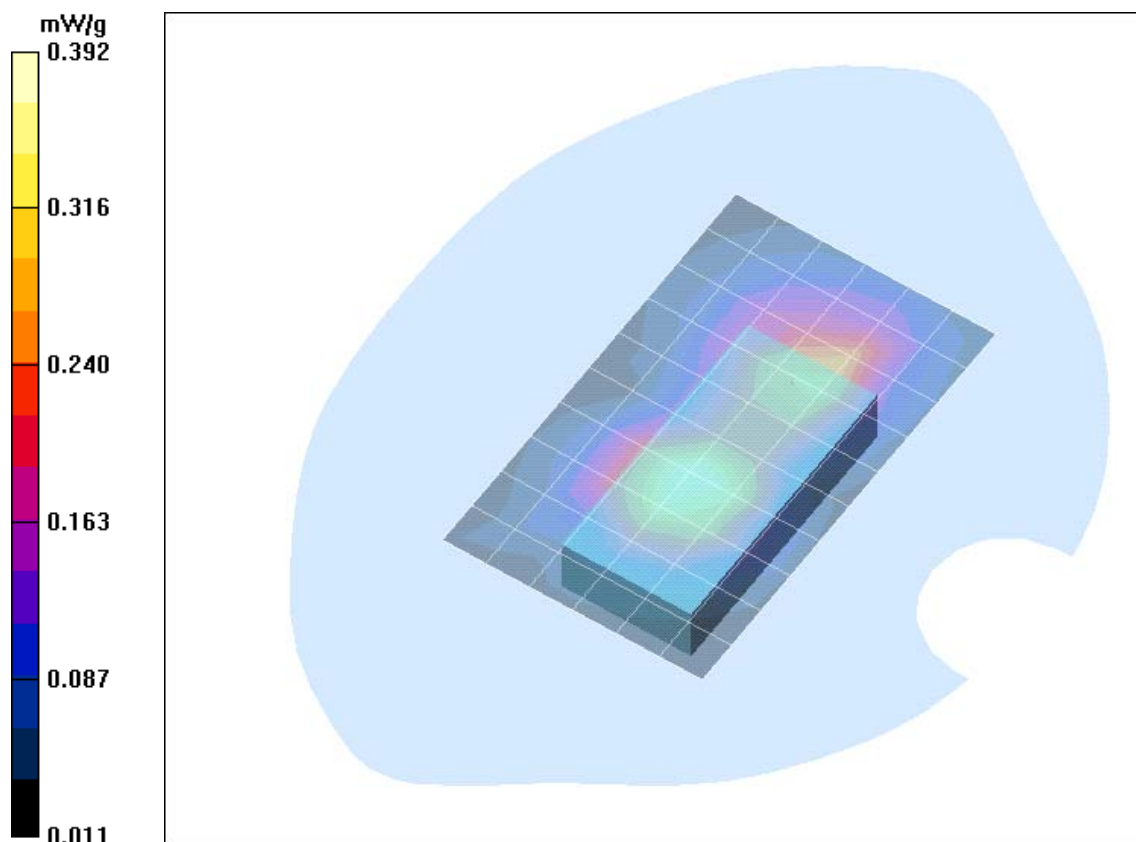


Fig. 17: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset and FCL 600 carry case with 13 mm distance (July 07, 2005; Ambient Temperature: 22 ° C; Liquid Temperature: 21.1° C).

6 SAR Distribution Plots, PCS 1900 Body with data cable in GPRS mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [792yphm_9.da4](#)

DUT: Siemens; Type: A71; Serial: 004400002004792

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ 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 Sn906; Calibrated: 16.12.2004

- 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) = 0.377 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 14.5 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.224 mW/g

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

Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 14.5 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.314 mW/g

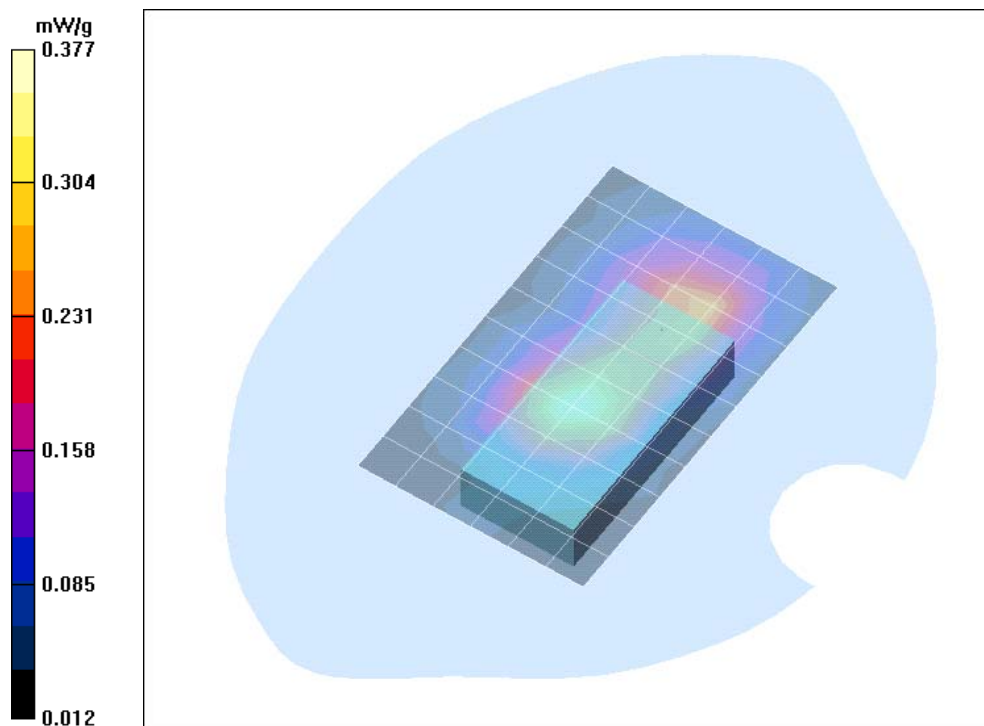


Fig. 18: SAR distribution for GPRS 1900, channel 661, body worn configuration, antenna towards the phantom, with data cable and FCL 600 carry case with 13 mm distance (July 07, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.1° C).

7 SAR z-axis scans (Validation)

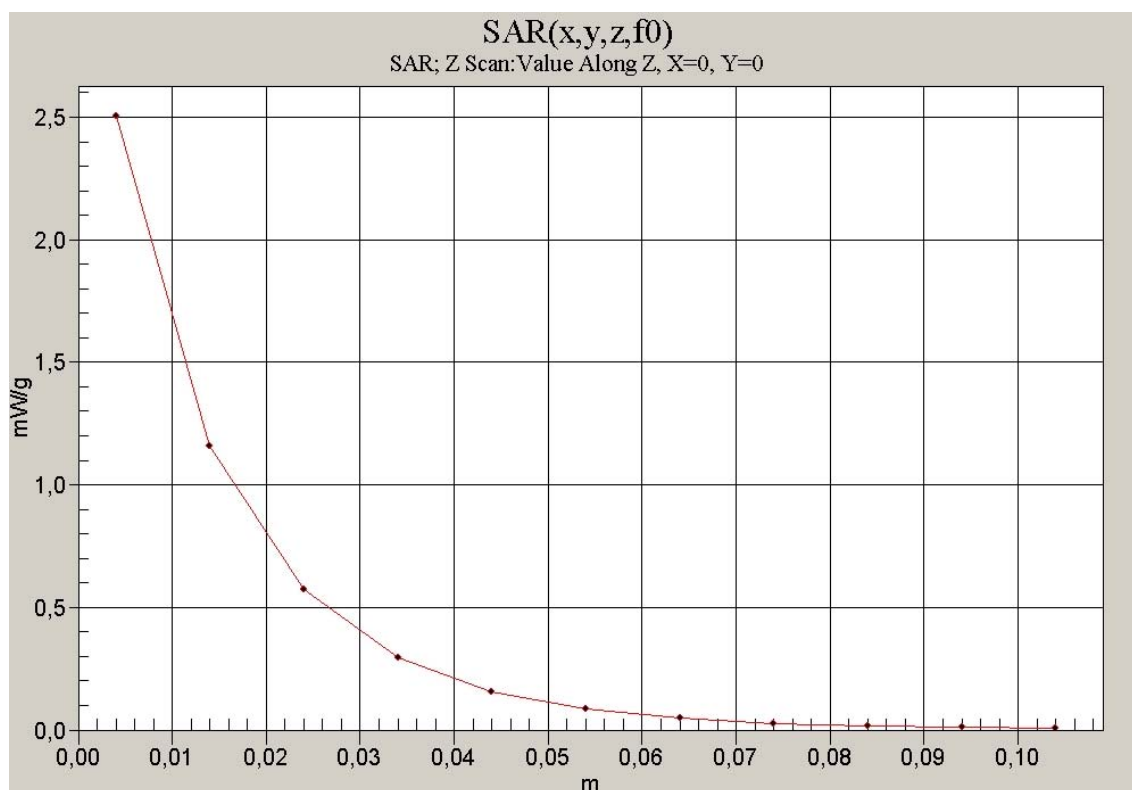


Fig. 19: SAR versus liquid depth, 835 MHz, head (July 01, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.8° C).

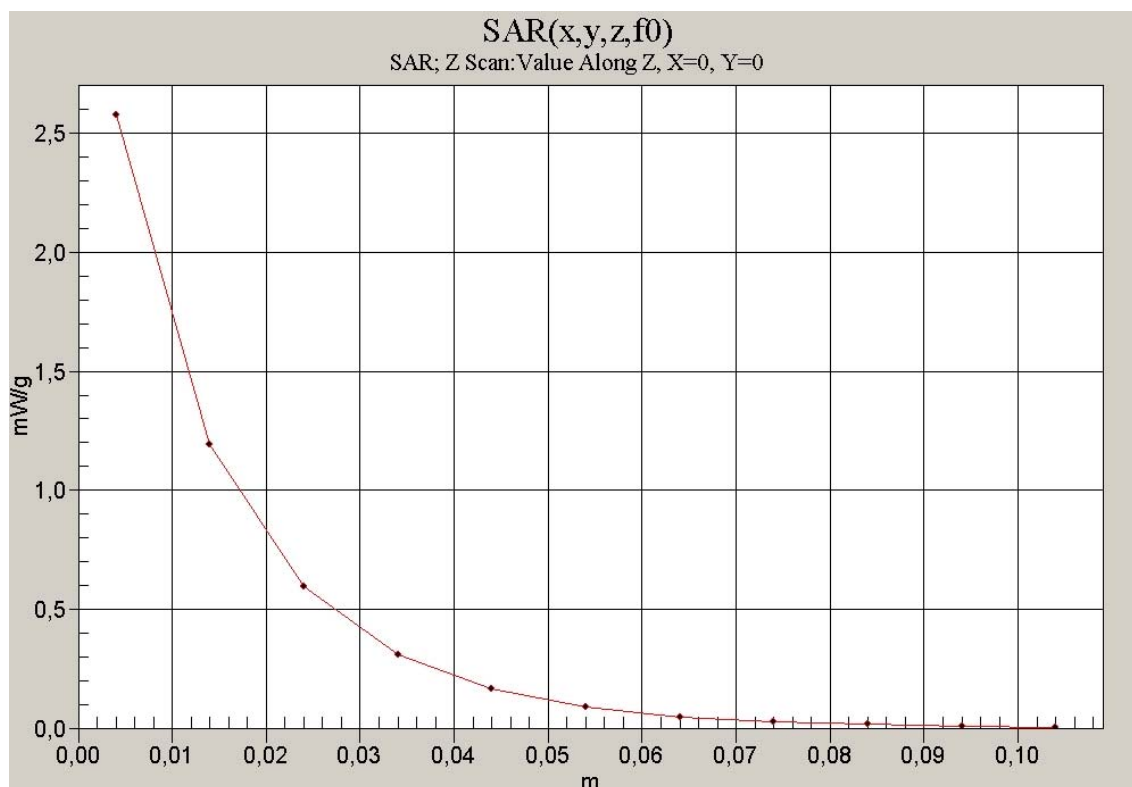


Fig. 20: SAR versus liquid depth, 835 MHz, body (July 05, 2005; Ambient Temperature: 22.5° C; Liquid Temperature : 21.9° C).

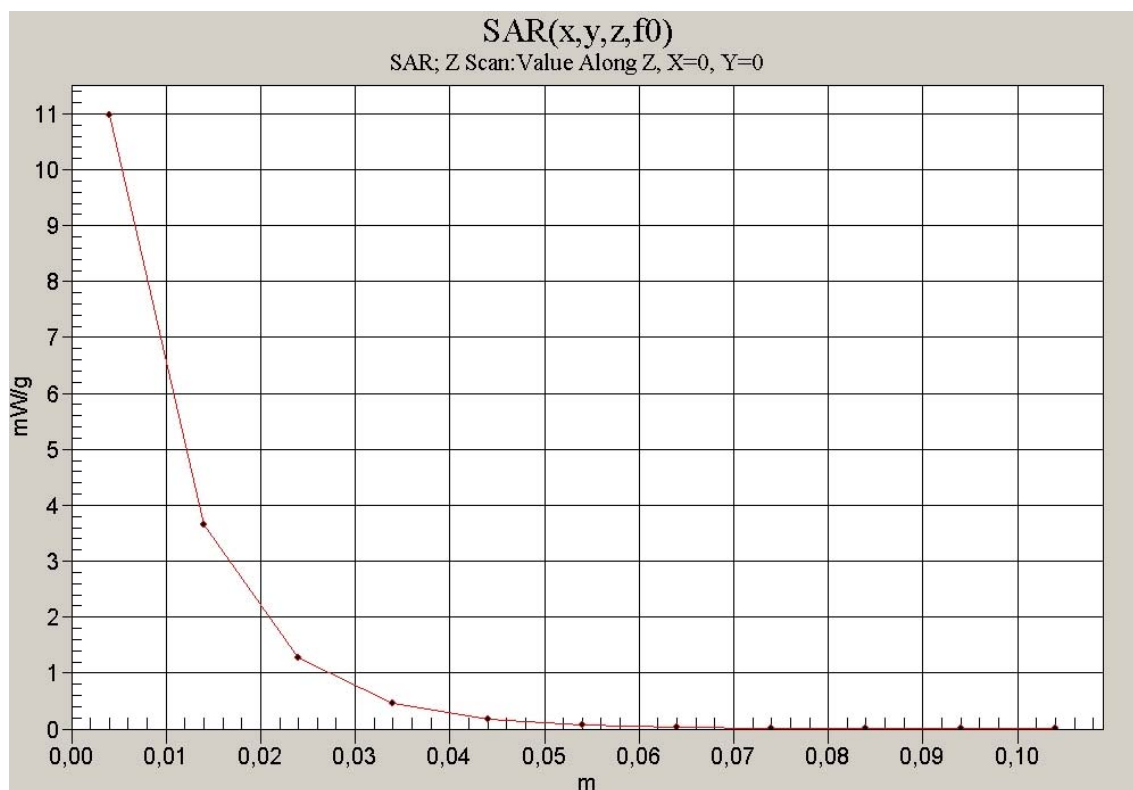


Fig. 21: SAR versus liquid depth, 1900 MHz, head (July 04, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.8° C).

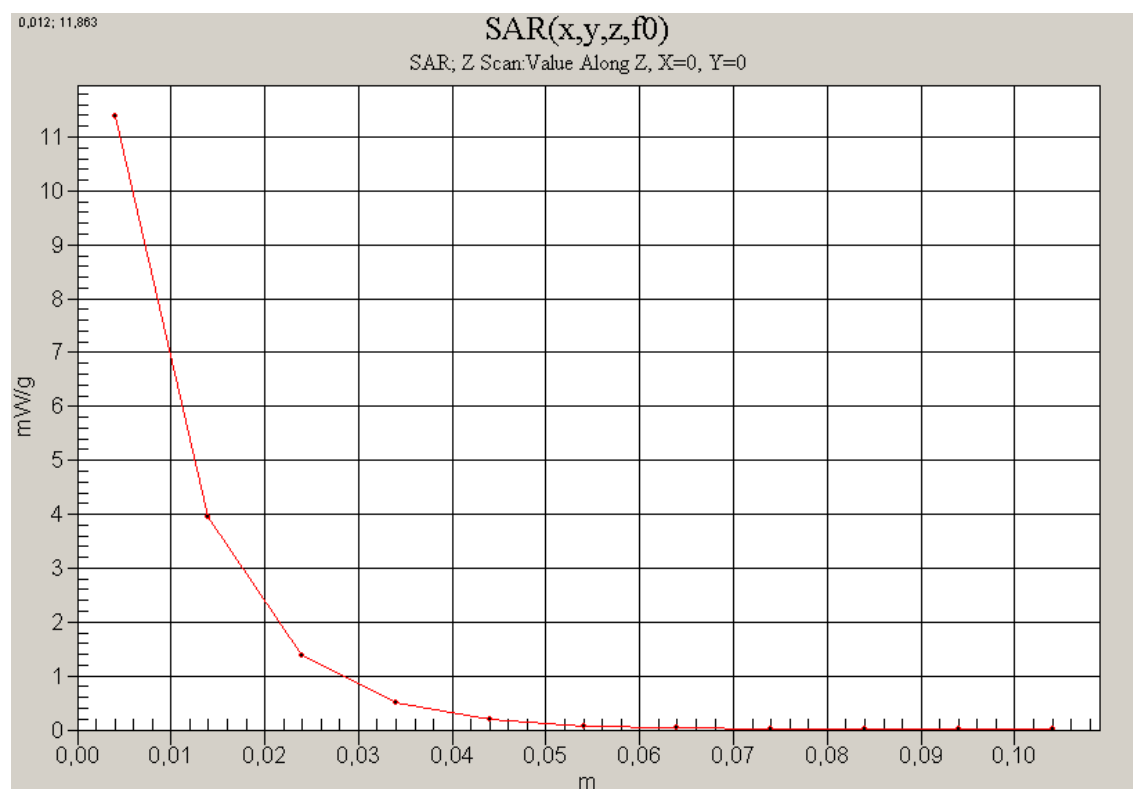


Fig. 22: SAR versus liquid depth, 1900 MHz, body (July 07, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

8 SAR z-axis scans (Measurements)

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

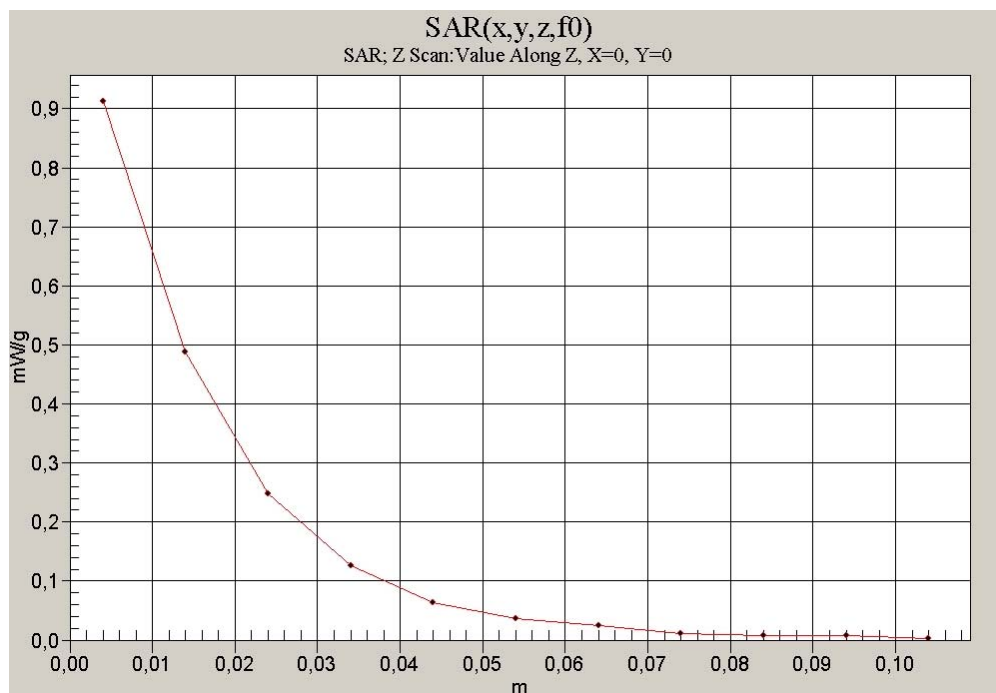


Fig. 23: SAR versus liquid depth, head: GSM 850, channel 128, cheek position, right side of head (July 01, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.8° C).

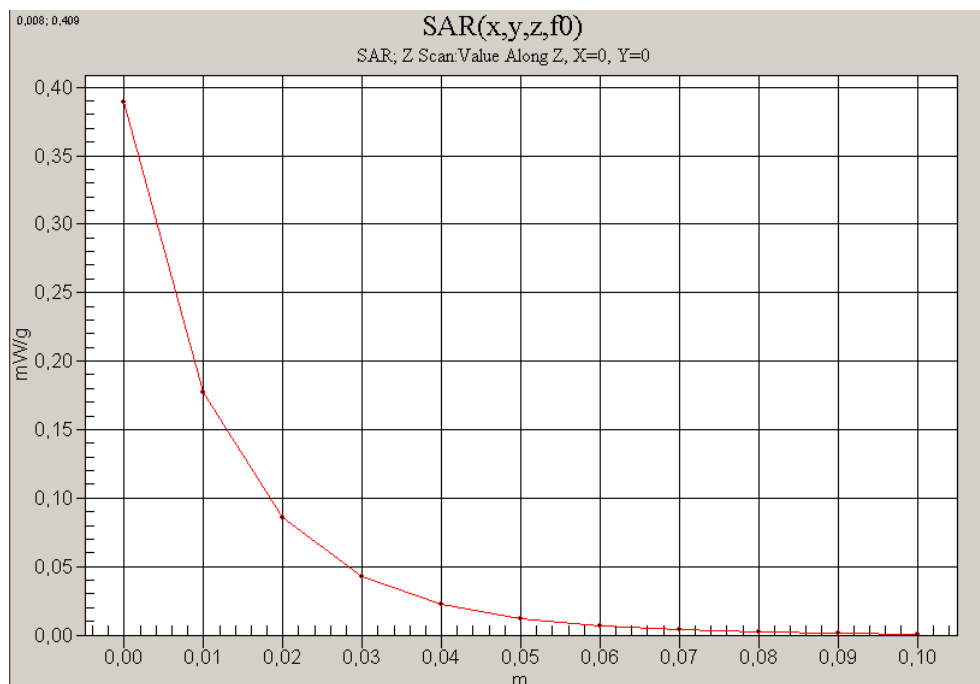


Fig. 24: SAR versus liquid depth, body: GSM 850, channel 190, headset and FCT 650 carry case (July 05, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.3° C).

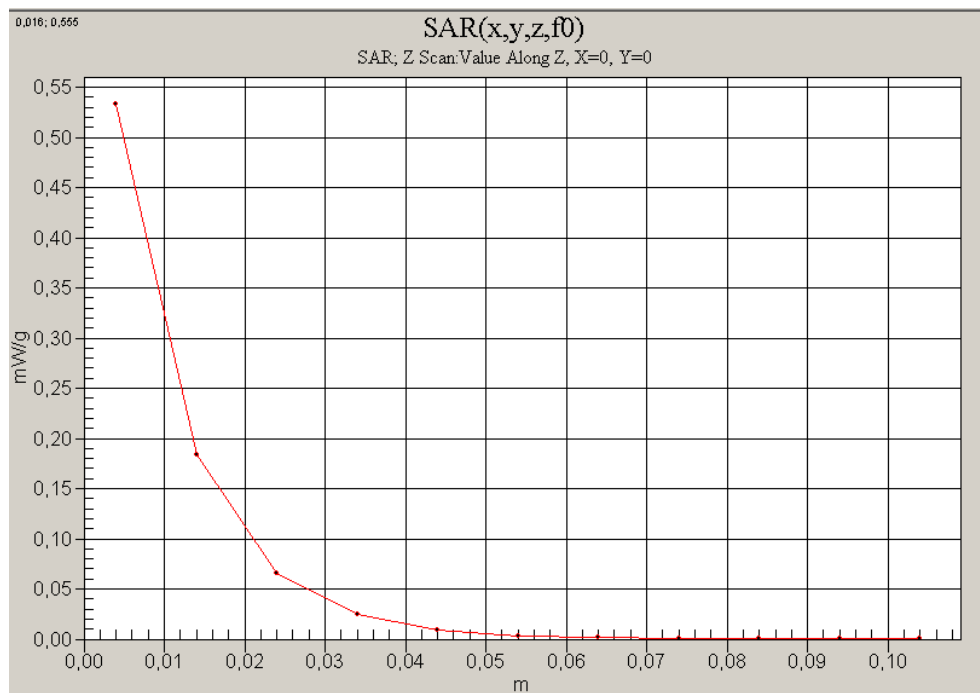


Fig. 25: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, right side of head (July 04, 2005; Ambient Temperature: 22° C; Liquid Temperature : 21.9° C).

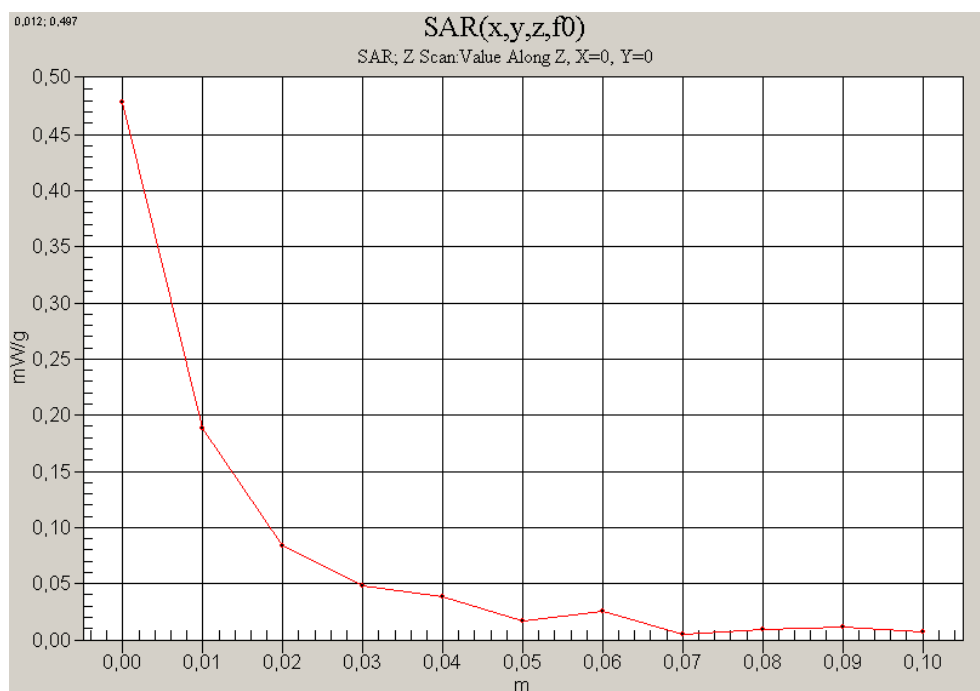


Fig. 26: SAR versus liquid depth, body: PCS 1900, channel 661, headset and FCT 650 carry case (July 07, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.1° C).