
Appendix for the Report

Dosimetric Assessment of the Siemens M75 (FCC ID: PWX-M75)

According to the FCC Requirements

SAR Distribution Plots

May 20, 2005
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Table of Contents

1	SAR DISTRIBUTION PLOTS, PCS 1900 HEAD, WITHOUT FLASH	3
2	SAR DISTRIBUTION PLOTS, PCS 1900 HEAD, WITH FLASH.....	7
3	SAR DISTRIBUTION PLOTS, PCS 1900 HEAD WORST CASE WITH BLUETOOTH	11
4	SAR DISTRIBUTION PLOTS, PCS 1900 BODY WORN (GAP = 15MM)	12
5	SAR DISTRIBUTION PLOTS, PCS 1900 BODY WORN, PTT (GAP = 25 MM).....	17
6	SAR Z-AXIS SCANS (VALIDATION)	18
7	SAR Z-AXIS SCANS (MEASUREMENTS).....	19

1 SAR Distribution Plots, PCS 1900 head, without flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [031yplm_1.da4](#)

DUT: Siemens; Type: M75 ; Serial: 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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) = 0.802 mW/g

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

Reference Value = 12.1 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.456 mW/g

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

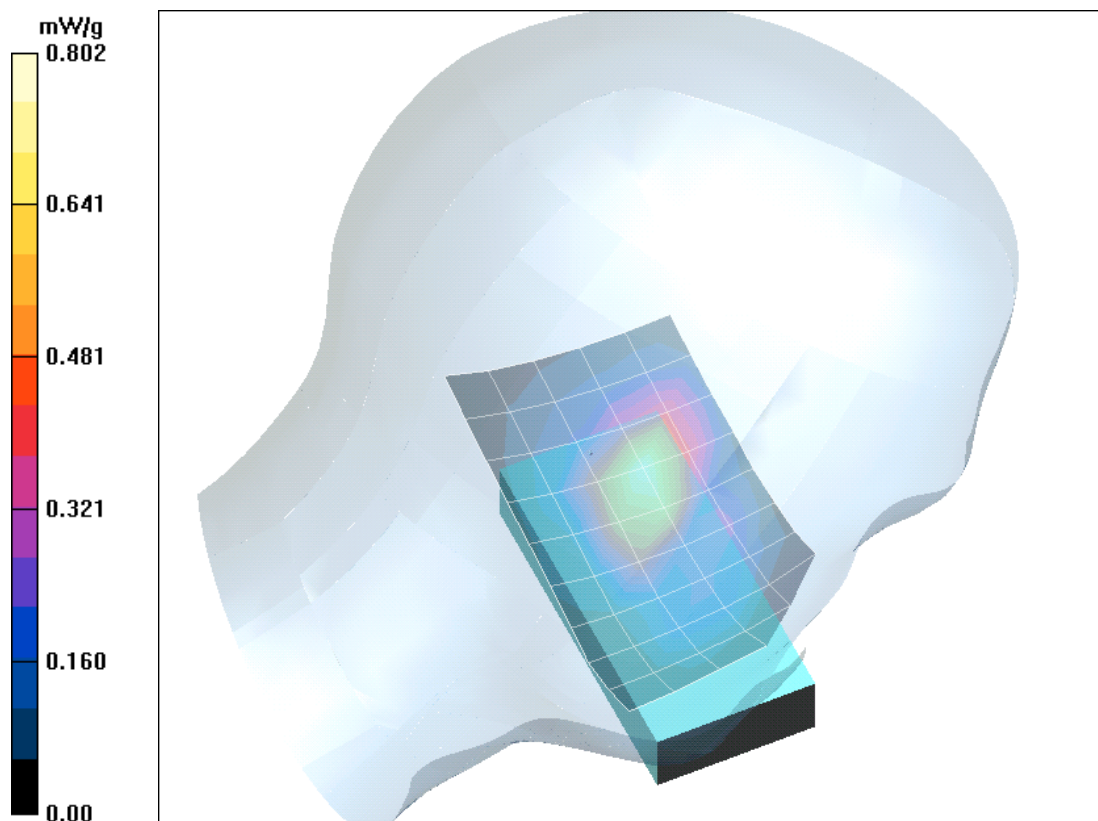


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.11.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [031yplm 2.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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 (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.622 mW/g

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

Reference Value = 12.8 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.322 mW/g

Maximum value of SAR (measured) = 0.625 mW/g

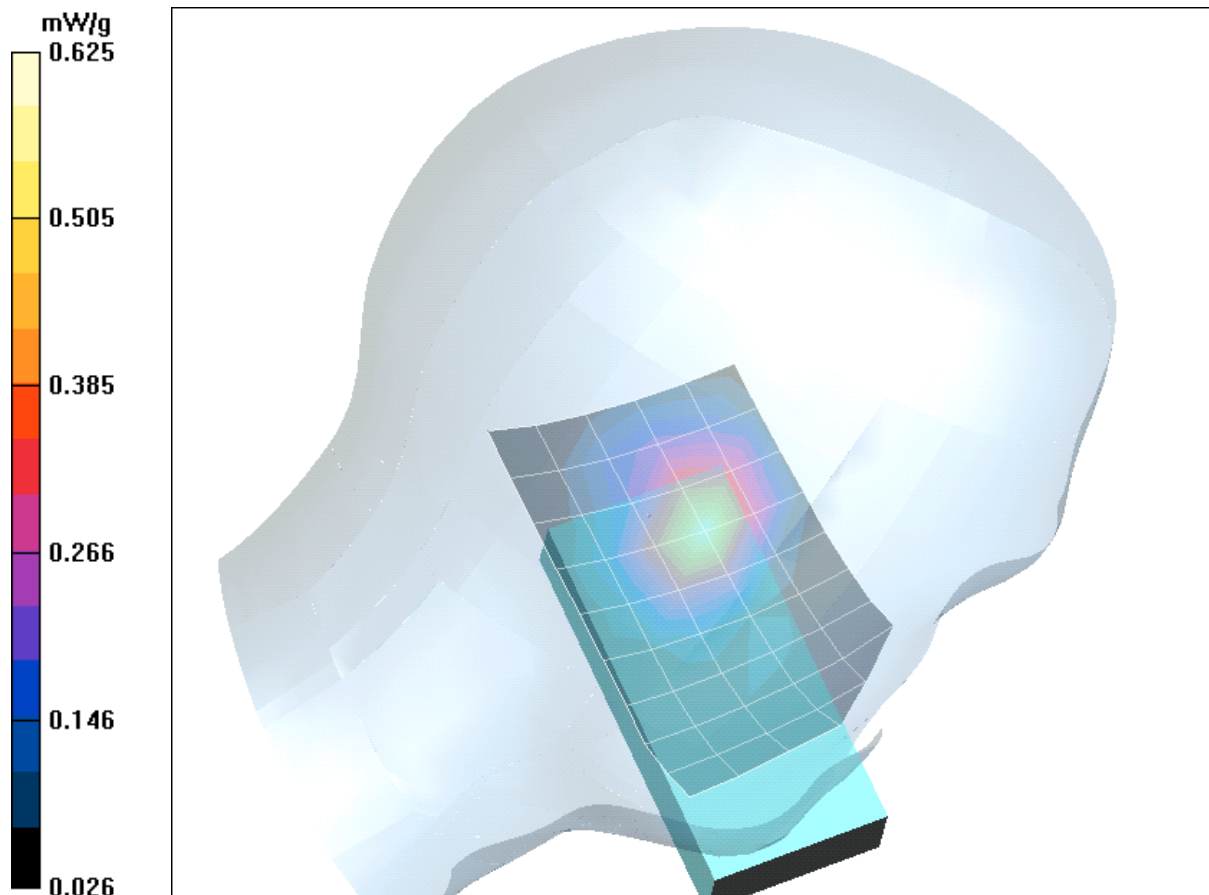


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.11.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [031yprm 1.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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) = 0.698 mW/g

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

Reference Value = 10.6 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.723 mW/g; SAR(10 g) = 0.404 mW/g

Maximum value of SAR (measured) = 0.801 mW/g

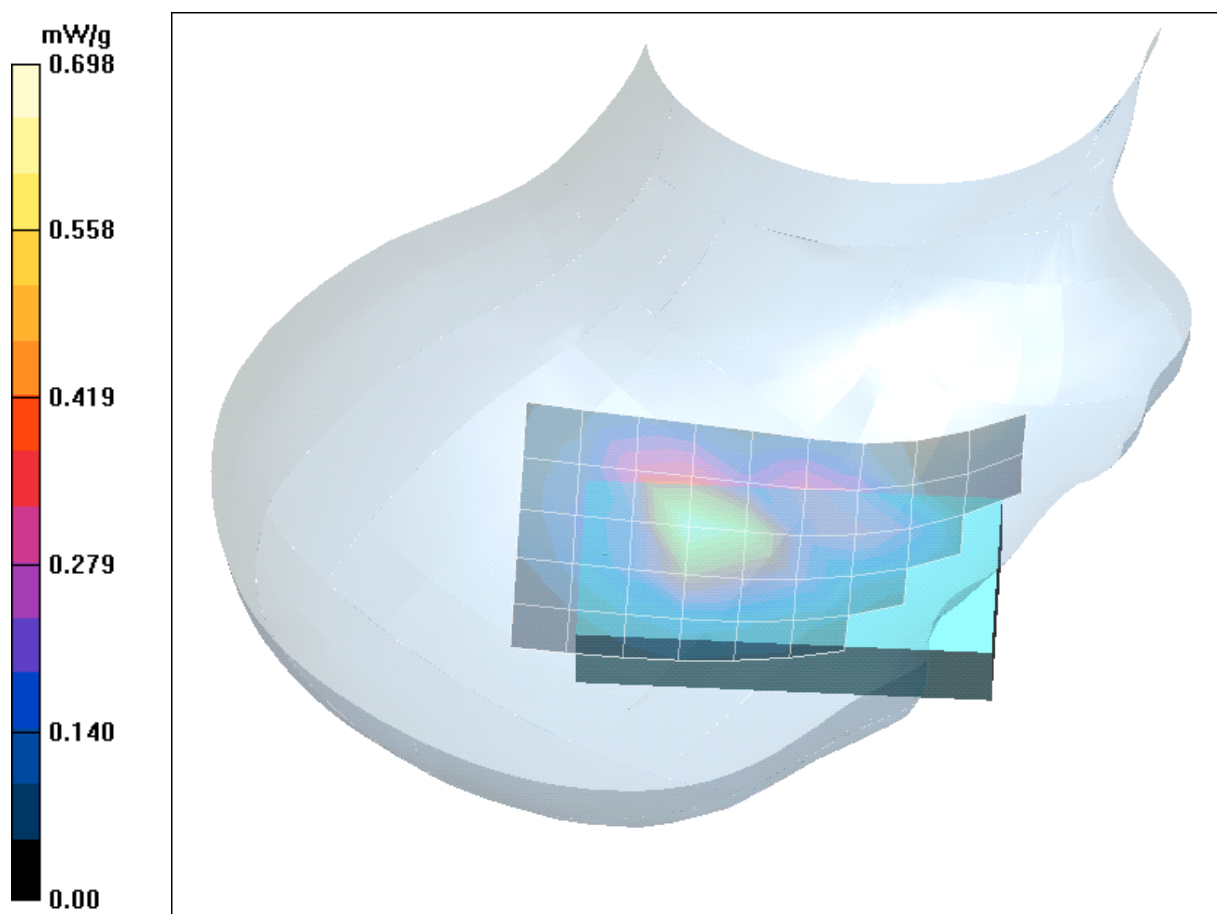


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.11.2005; Ambient Temperature: 21.7° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [031yprm 2.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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 (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.439 mW/g

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

Reference Value = 12.7 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.757 W/kg

SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.268 mW/g

Maximum value of SAR (measured) = 0.492 mW/g

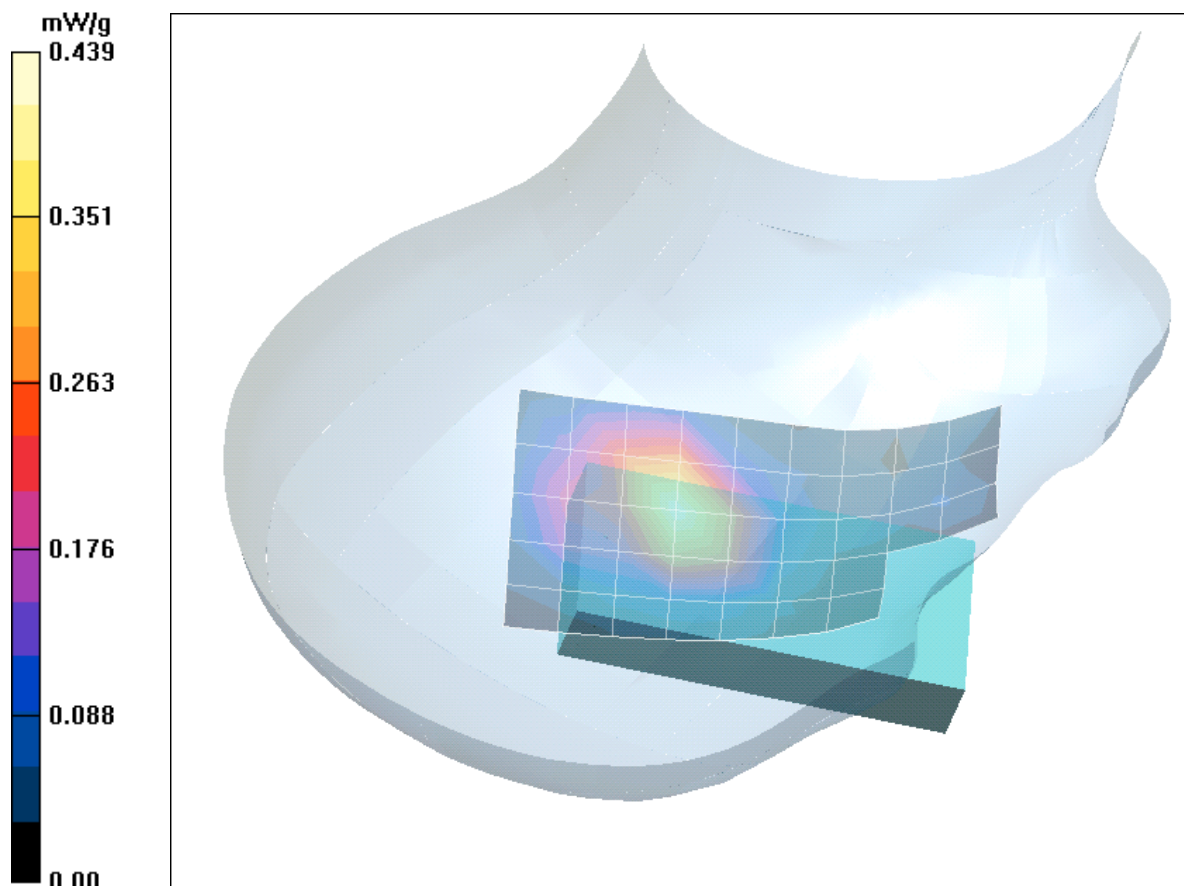


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.11.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 20.4° C).

2 SAR Distribution Plots, PCS 1900 head, with flash

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [031yplm_1_flash.da4](#)

DUT: Siemens; Type: M75 ; Serial: 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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) = 0.550 mW/g

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

Reference Value = 10.7 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.316 mW/g

Maximum value of SAR (measured) = 0.562 mW/g

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

Reference Value = 10.7 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.539 mW/g

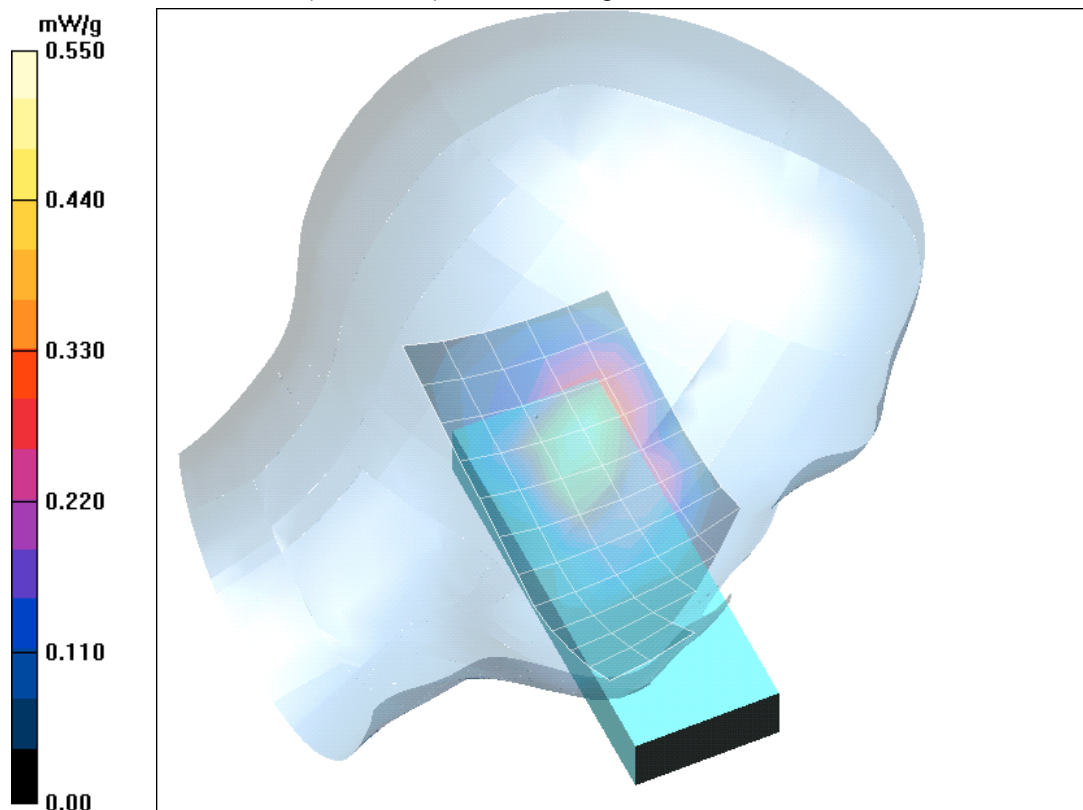


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (05.11.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [031yplm 2 flash.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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) = 0.425 mW/g

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

Reference Value = 11.0 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.233 mW/g

Maximum value of SAR (measured) = 0.436 mW/g

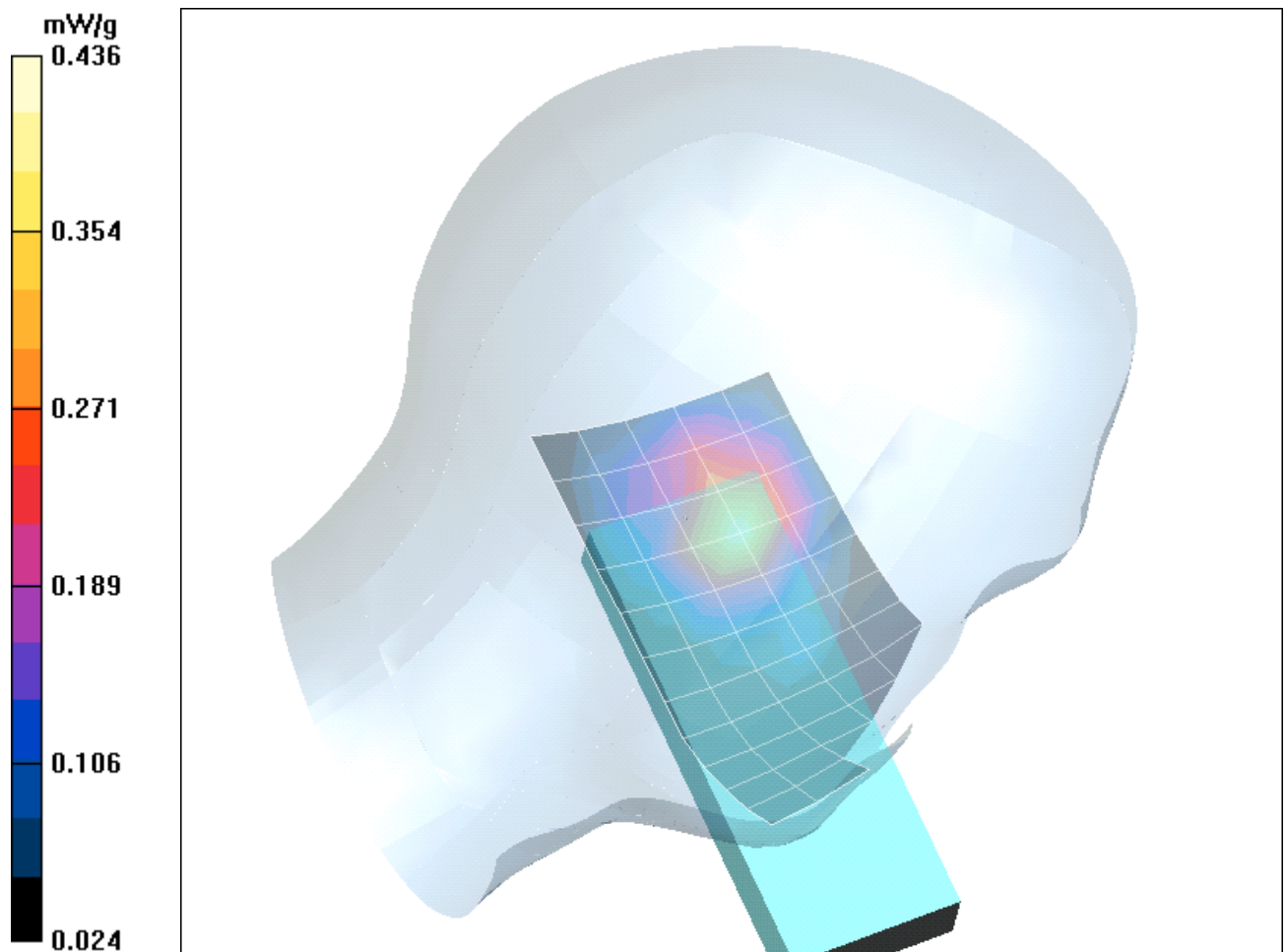


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (05.11.2005; Ambient Temperature: 21.7° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [031yprm 1 flash.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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 (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.565 mW/g

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

Reference Value = 10.2 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.990 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.325 mW/g

Maximum value of SAR (measured) = 0.621 mW/g

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

Reference Value = 10.2 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.699 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.467 mW/g

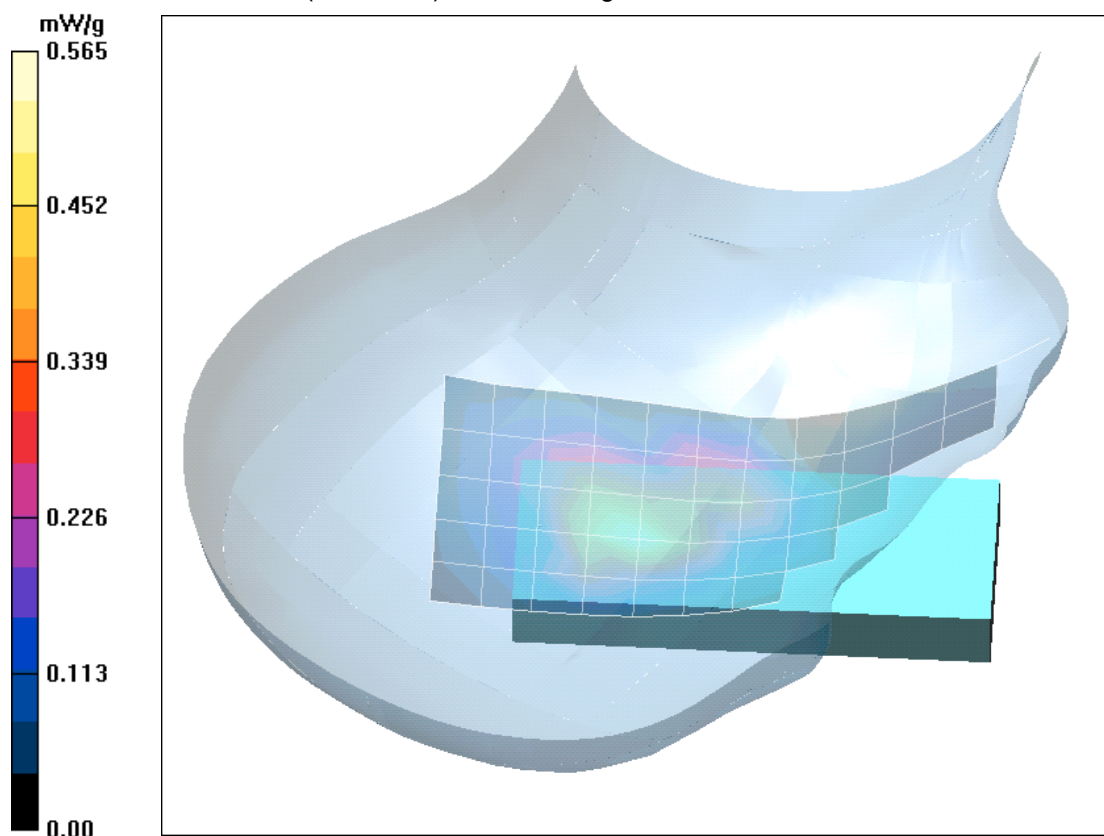


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (05.11.2005; Ambient Temperature: 21.7° C; Liquid Temperature: 20.4° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [031yprm 2 flash.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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 (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.345 mW/g

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

Reference Value = 10.6 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.401 mW/g

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

Reference Value = 10.6 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.242 mW/g

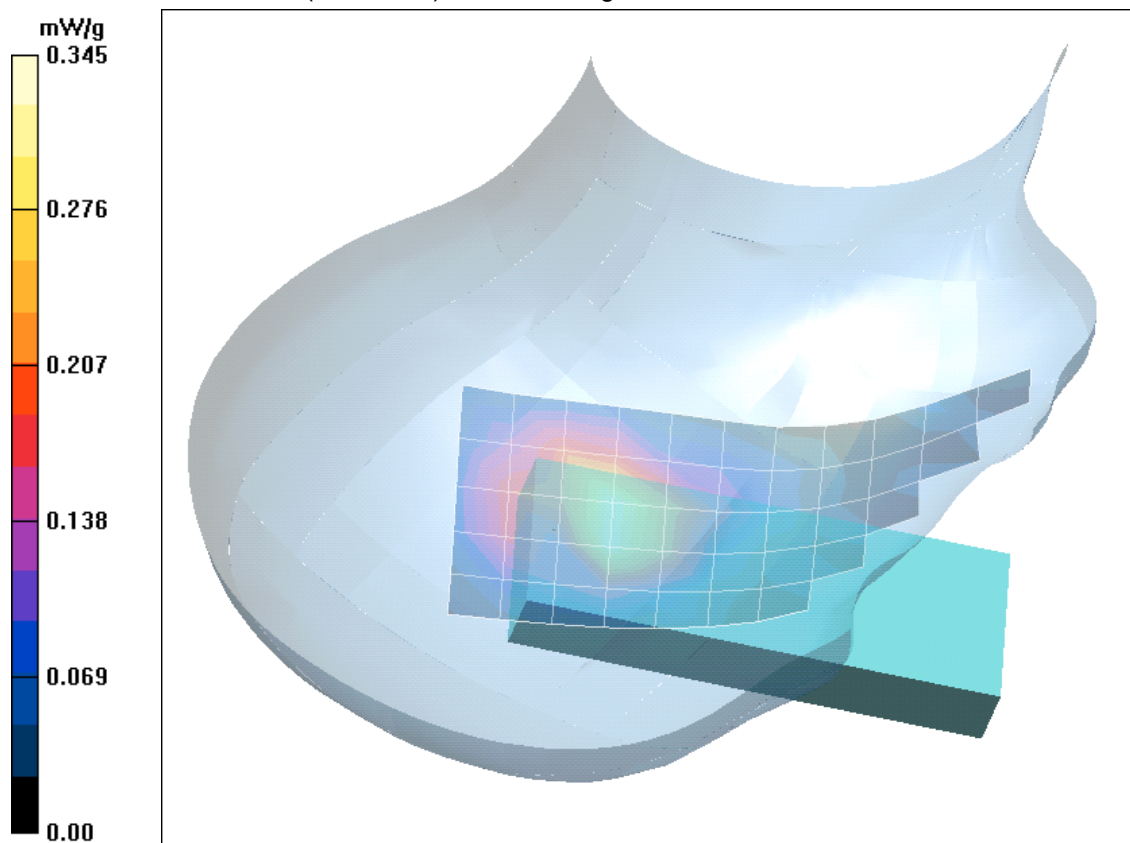


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.11.2005; Ambient Temperature: 21.8° C; Liquid Temperature: 20.4° C)

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

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [031yplm_1_BT.da4](#)

DUT: Siemens; Type: M75 ; Serial: 004400009398031

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; $\epsilon_r = 40$; $\rho = 1000$ 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: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.742 mW/g

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

Reference Value = 13.5 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.834 mW/g

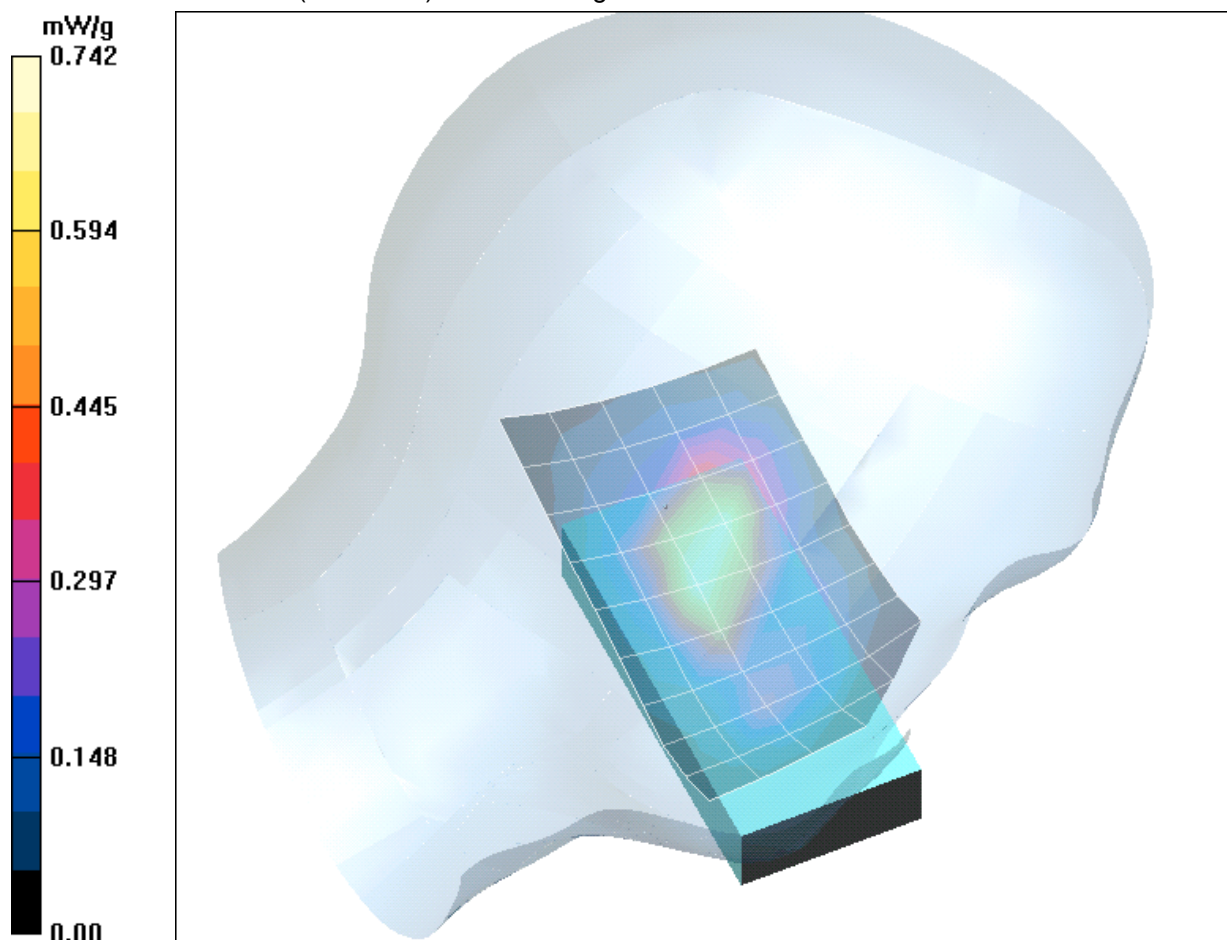


Fig. 9: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (05.11.2005; Ambient Temperature: 21.7° C; Liquid Temperature: 20.4° C)

4 SAR Distribution Plots, PCS 1900 Body worn (gap = 15mm)

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [031bphm_3_GSM.da4](#)

DUT: Siemens; Type: M75 ; Serial: 004400009398031; Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

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

Reference Value = 6.45 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.406 mW/g

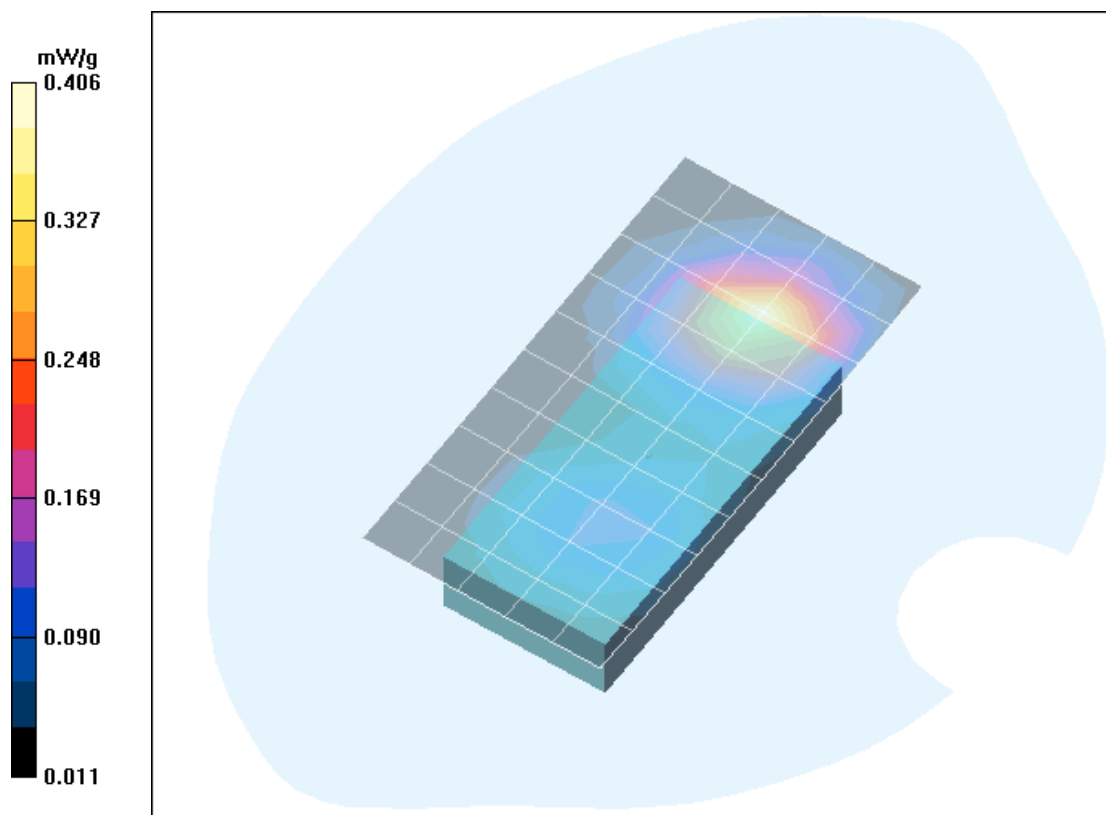


Fig. 10: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with headset, (05.20.2005; Ambient Temperature: 21.3° C; Liquid Temperature : 20.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [031bphm 2 GSM.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031; **Program Name:** Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.397 mW/g

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

Reference Value = 6.72 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.216 mW/g

Maximum value of SAR (measured) = 0.408 mW/g

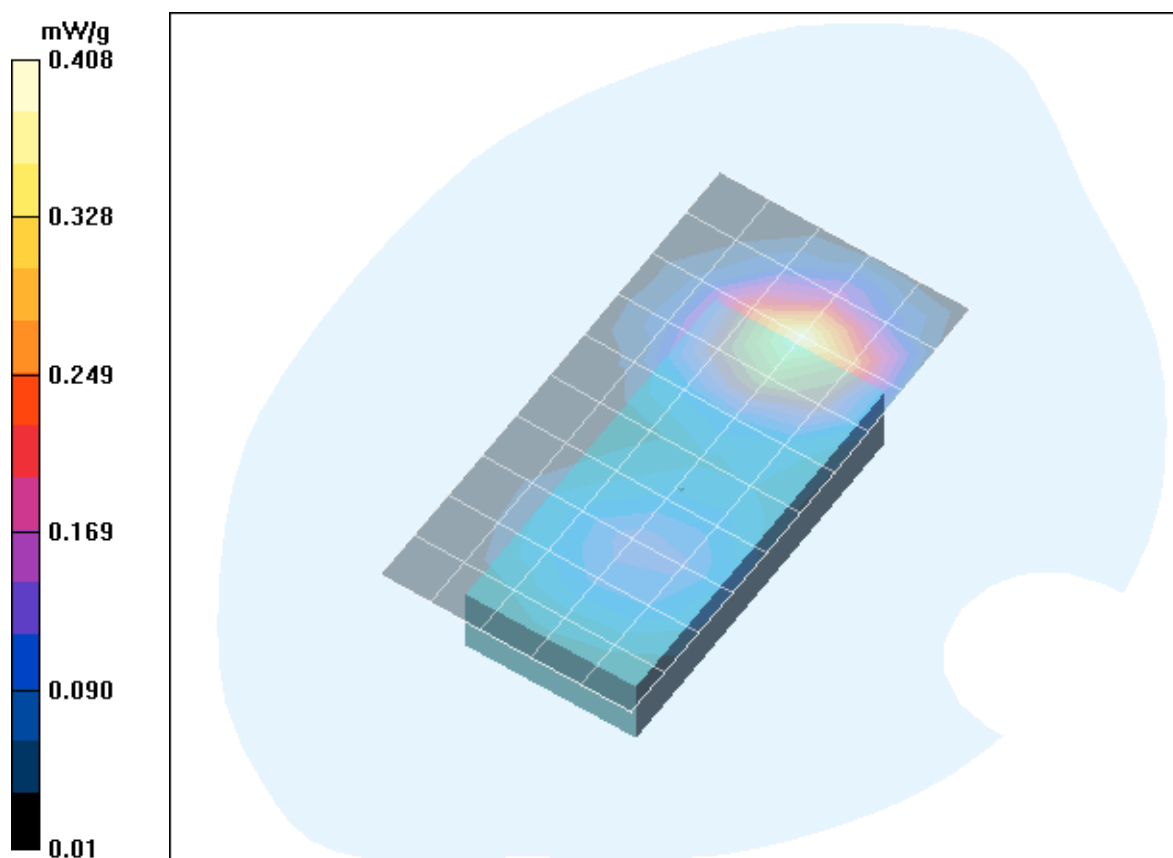


Fig. 11: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM, (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature : 20.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [031bphm 2 GSM BT.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031; **Program Name:** Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.395 mW/g

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

Reference Value = 6.91 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.592 W/kg

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.404 mW/g

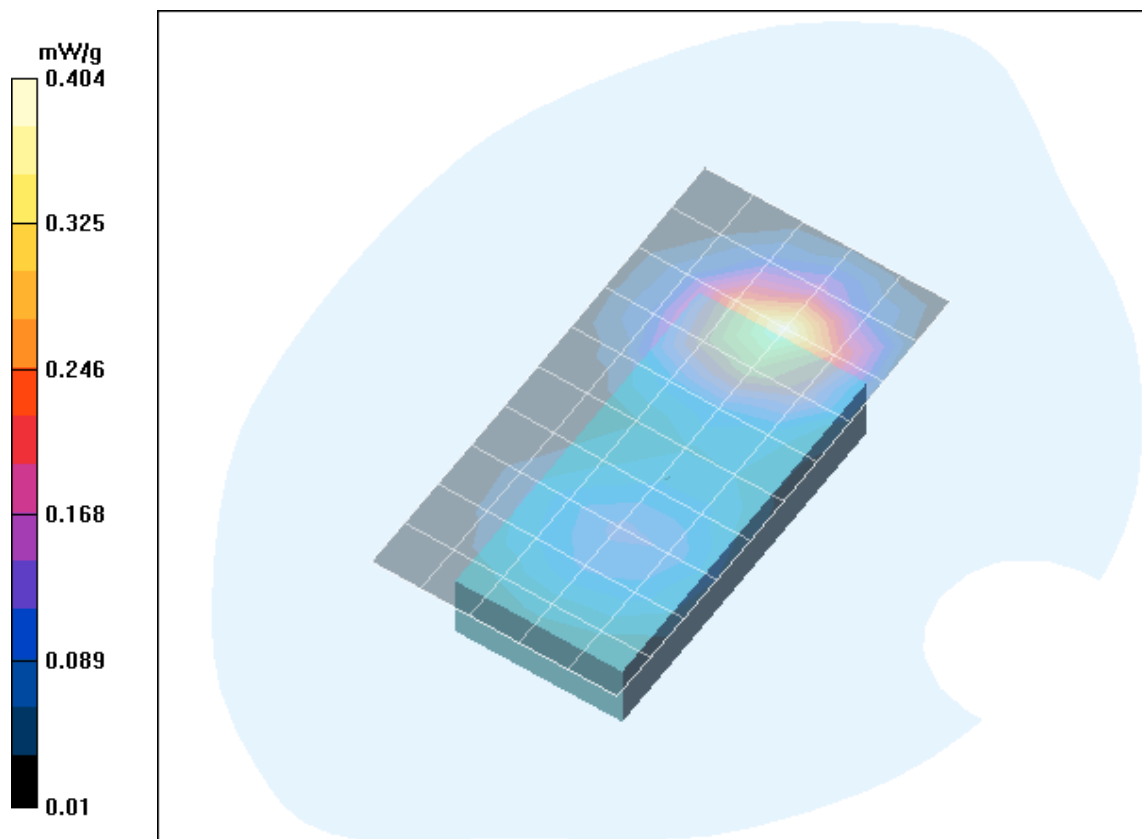


Fig. 12: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GSM with activated Bluetooth, (05.20.2005; Ambient Temperature: 21.3° C; Liquid Temperature : 20.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [031bphm 1 GPRS 15mm.da4](#)

DUT: Siemens; **Type:** M75 ; **Serial:** 004400009398031; **Program Name:** Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.692 mW/g

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

Reference Value = 9.83 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.399 mW/g

Maximum value of SAR (measured) = 0.761 mW/g

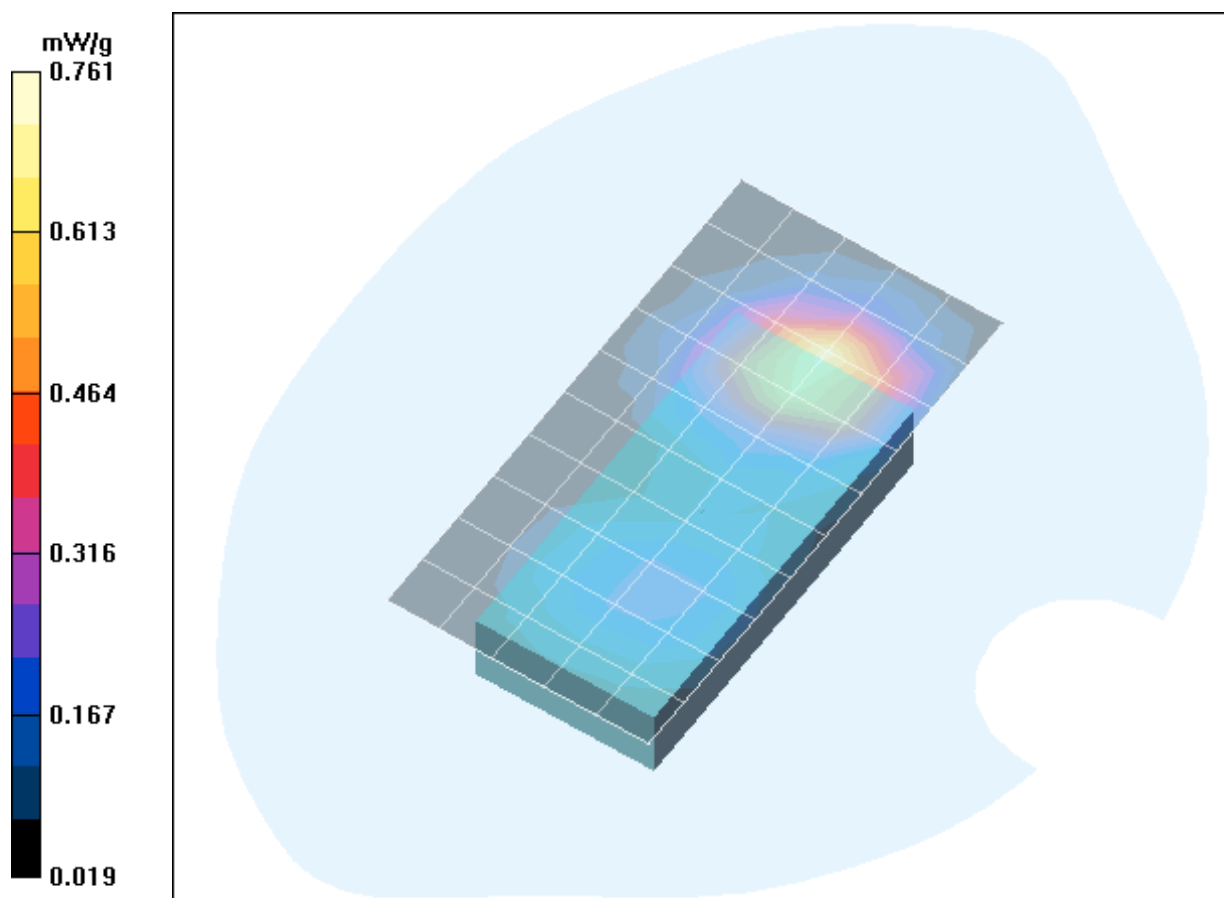


Fig. 13: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10, (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature : 20.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [031bphm 4 GPRS data.da4](#)

DUT: Siemens; **Type:** CX75 ; **Serial:** 00440000996669; **Program Name:** Body Worn

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (6x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.672 mW/g

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

Reference Value = 10.7 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.406 mW/g

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

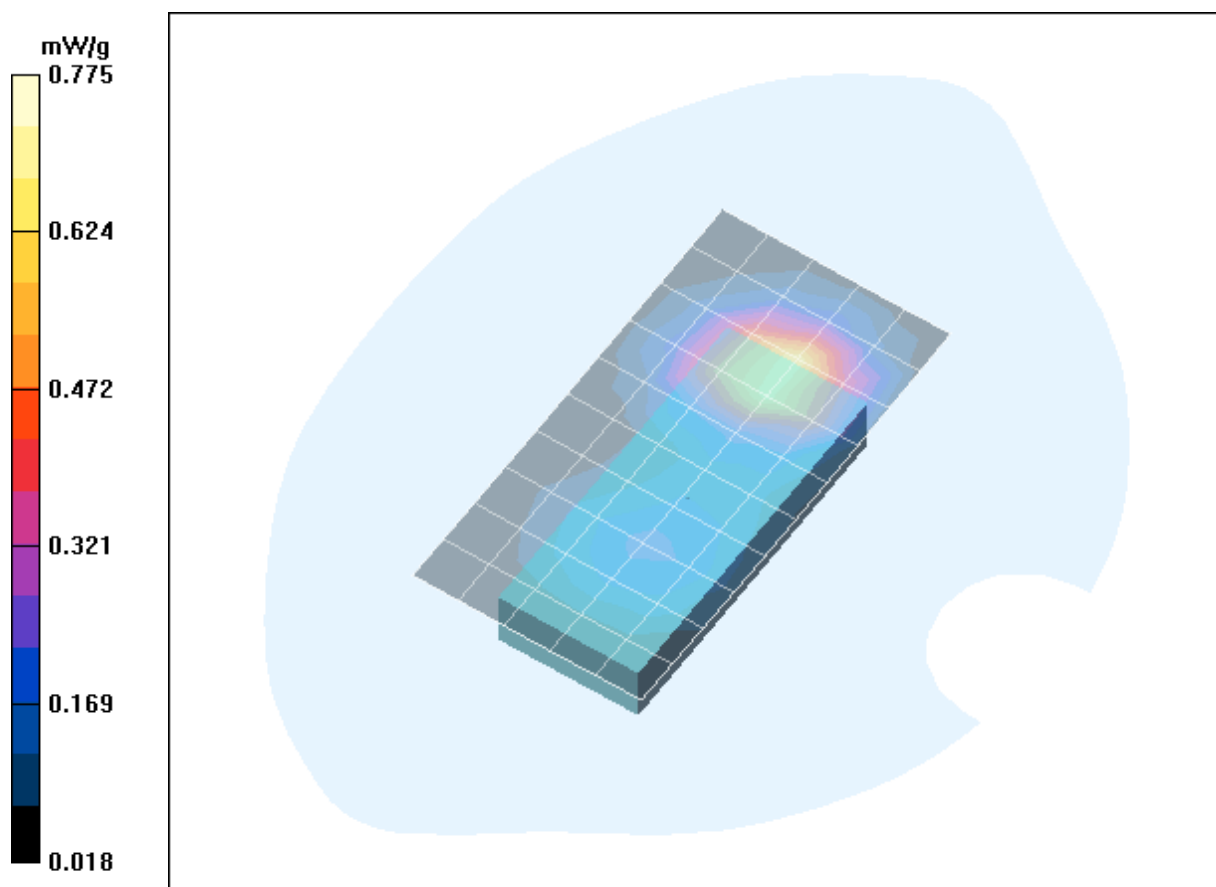


Fig. 14: SAR distribution for PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10, (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature : 20.6° C).

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

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [031bphm_5_GPRS_PTT.da4](#)

DUT: Siemens; Type: M75 ; Serial: 004400009398031; Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body Worn/Area Scan (6x11x1): 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 = 7.00 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.236 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.099 mW/g

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

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

Reference Value = 7.00 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.141 W/kg

SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.103 mW/g

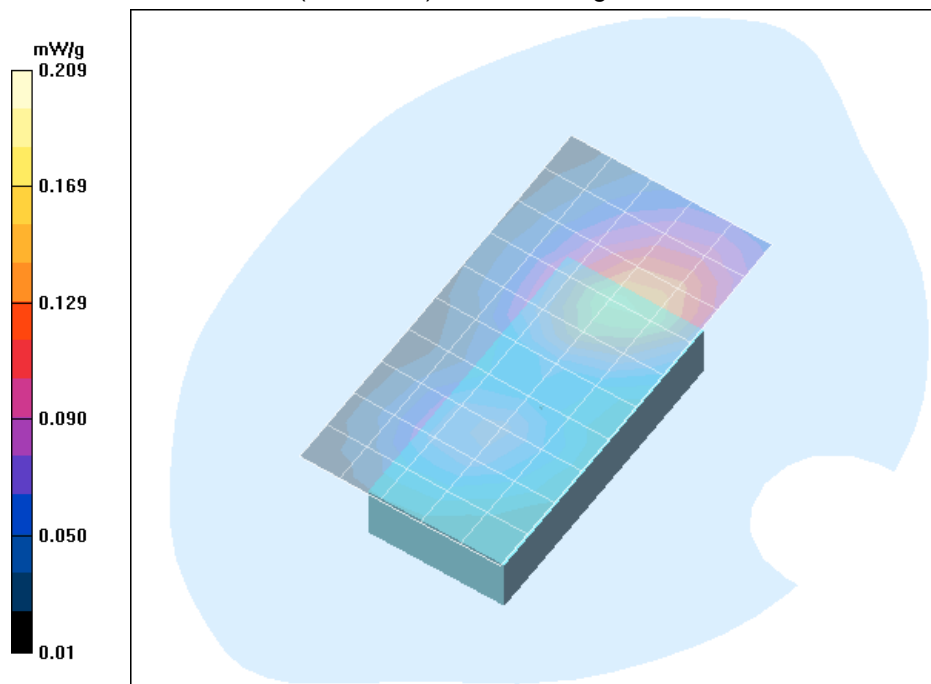


Fig. 15: SAR distribution for PCS 1900, channel 661, display towards the phantom, GPRS Class 10 (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature : 20.5° C).

6 SAR z-axis scans (Validation)

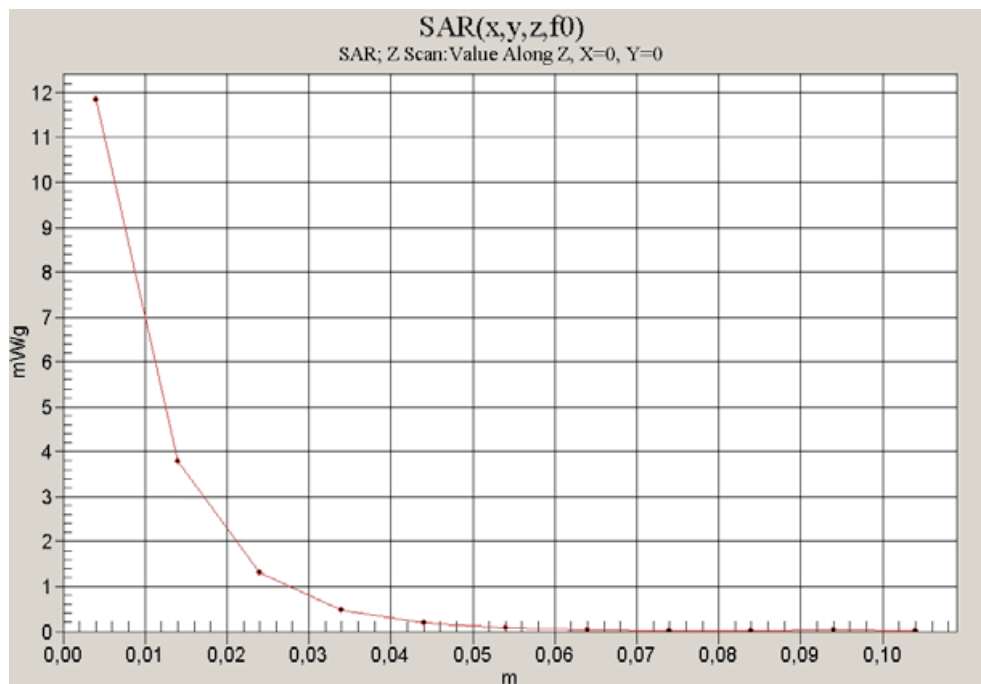


Fig. 16: SAR versus liquid depth, 1900 MHz, head (05.11.2005; Ambient Temperature: 21.2° C; Liquid Temperature : 20.1° C).

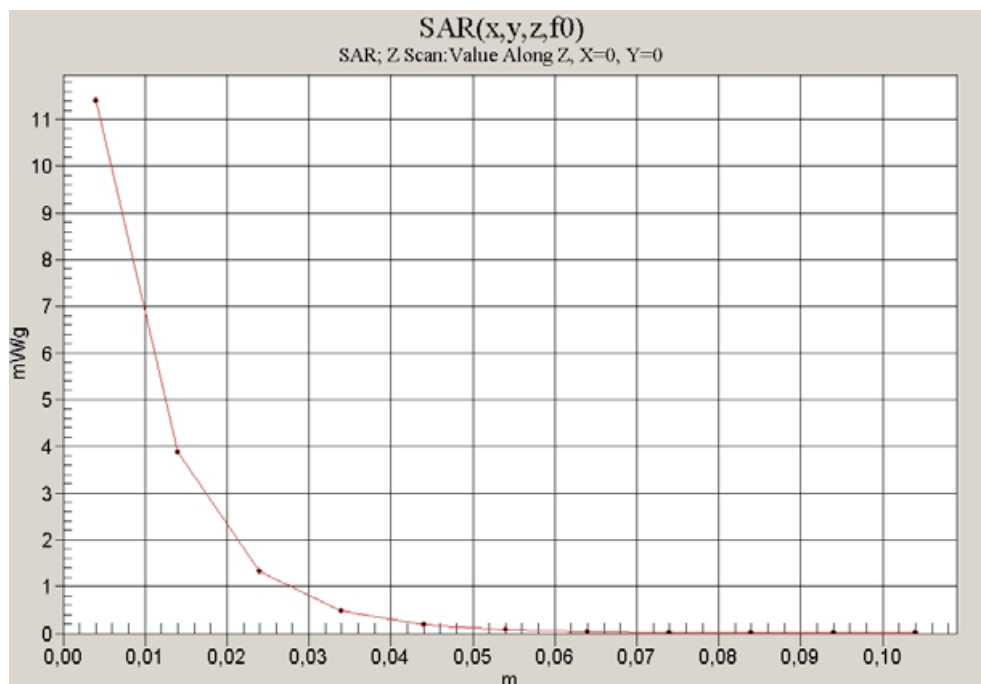


Fig. 17: SAR versus liquid depth, 1900 MHz, body (05.20.2005; Ambient Temperature: 21.3° C; Liquid Temperature : 20.7° C).

7 SAR z-axis scans (Measurements)

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

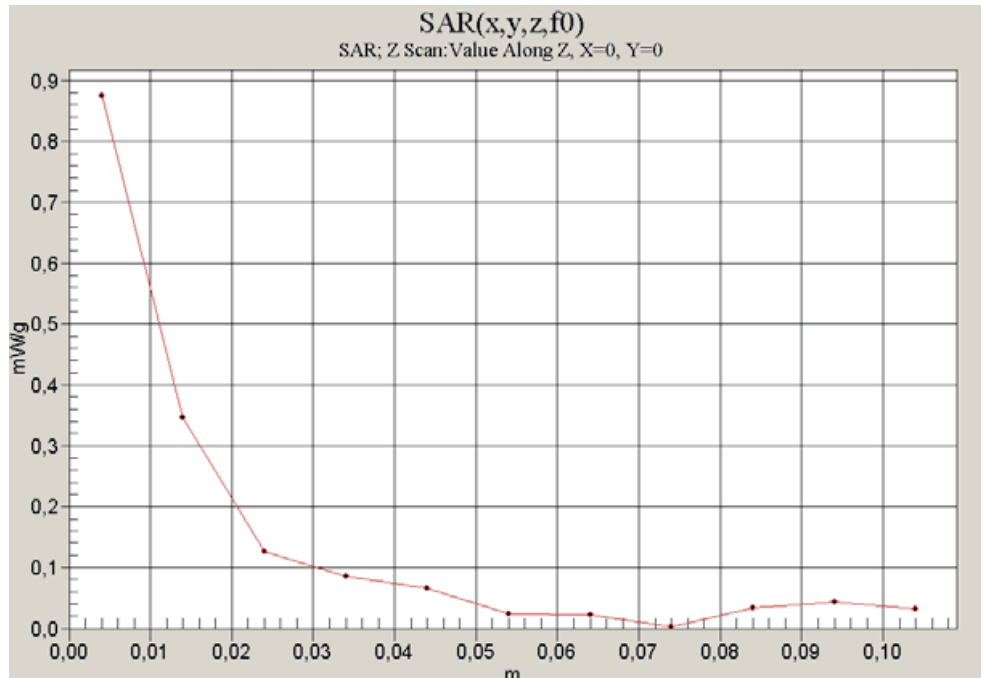


Fig. 18: SAR versus liquid depth, head: PCS 1900, channel 661, cheek position, left side of head without flash, (05.11.2005, Ambient Temperature: 21.8° C; Liquid Temperature : 20.4° C).

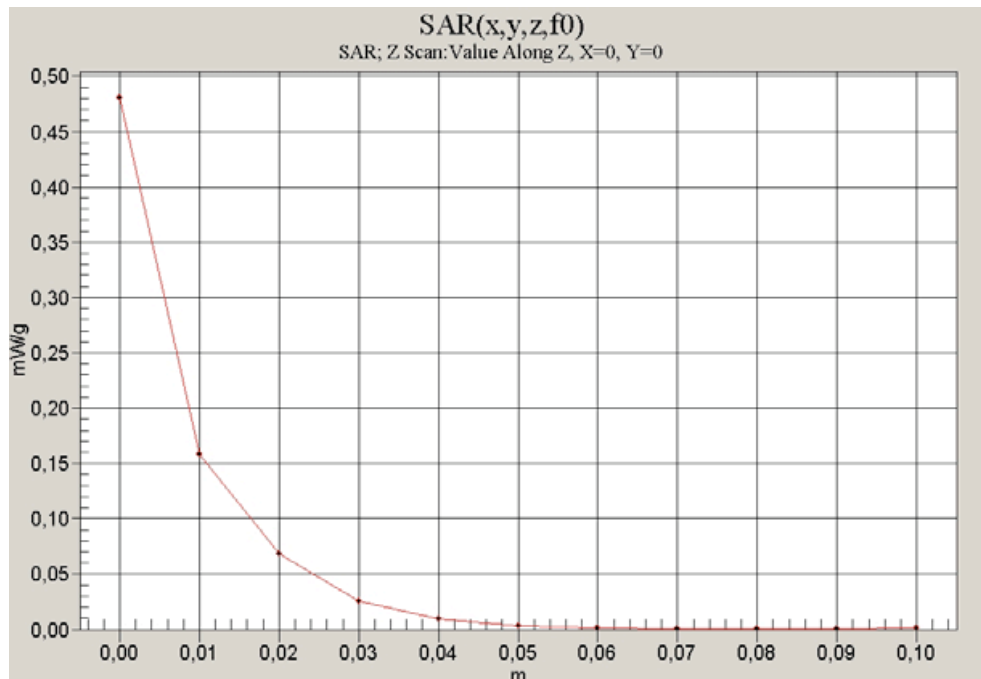


Fig. 19: SAR versus liquid depth, body: PCS 1900, channel 661, antenna towards the phantom, GPRS Class 10, (05.20.2005; Ambient Temperature: 21.4° C; Liquid Temperature : 20.6° C).