

Appendix for the Report

Dosimetric Assessment of the Kyocera F42 (FCC ID: V65OASY1)

According to the FCC Requirements

SAR Distribution Plots

November 24, 2011

IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
KYOCERA Corporation
2-1-1 Kagahara, Tsuzuki-ku,
224-8502 Yokohama-shi
Japan

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

Table of Contents

1 SAR DISTRIBUTION PLOTS, PCS 1900, HEAD 3

2 SAR DISTRIBUTION PLOTS, PCS/GPRS 1900, BODY..... 7

3 SAR DISTRIBUTION PLOTS, IEEE 802.11 B, BODY..... 12

4 SAR Z-AXIS SCANS (VALIDATION) 17

5 SAR Z-AXIS SCANS (MEASUREMENTS)..... 18

1 SAR Distribution Plots, PCS 1900, Head

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yplm_1.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: PCS 1900

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

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

Maximum value of SAR (measured) = 0.509 mW/g

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

Reference Value = 7.27 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.880 W/kg

SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.286 mW/g

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

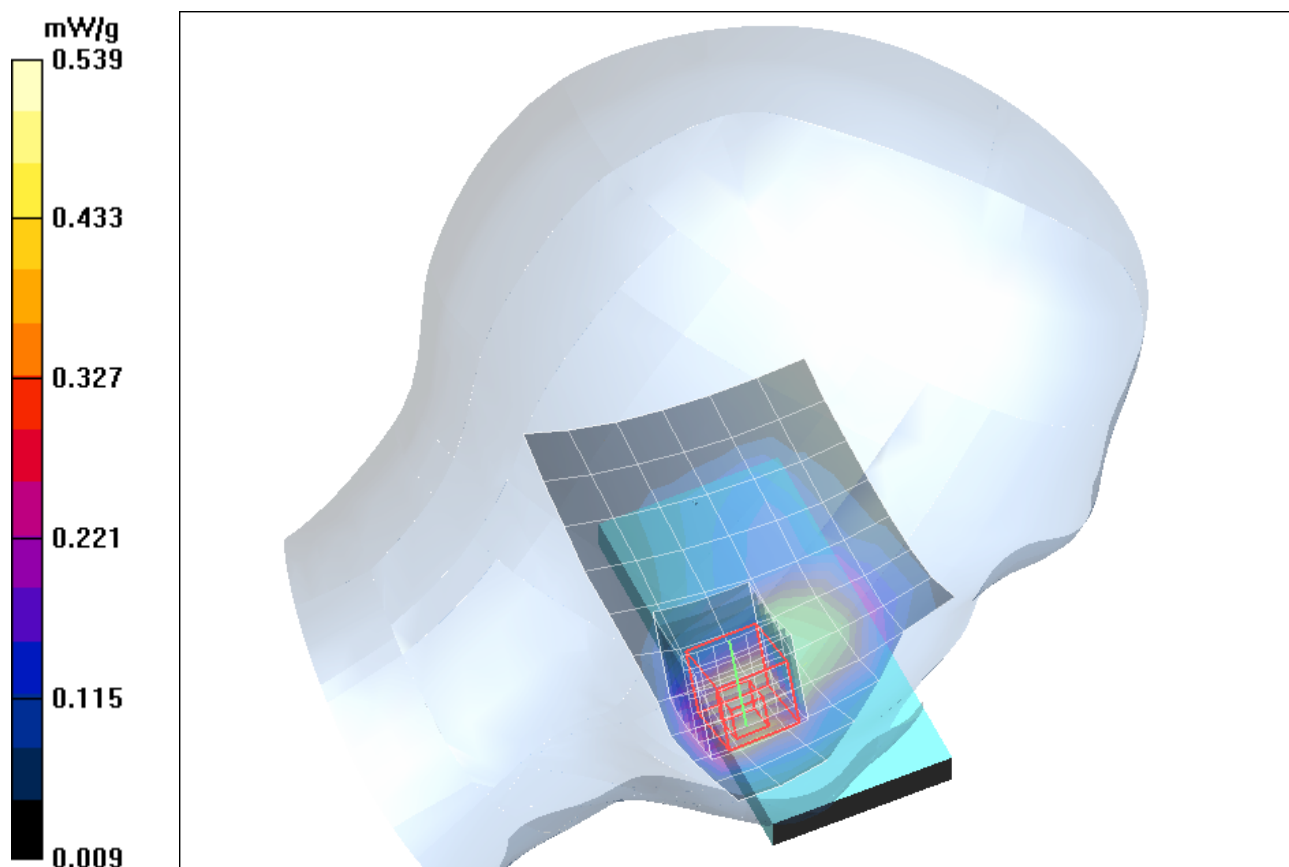


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (November 11, 2011; Ambient Temperature: 22.1° C; Liquid Temperature: 21.7° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yplm_2.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: PCS 1900

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

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

Maximum value of SAR (measured) = 0.341 mW/g

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

Reference Value = 12.5 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.587 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.374 mW/g

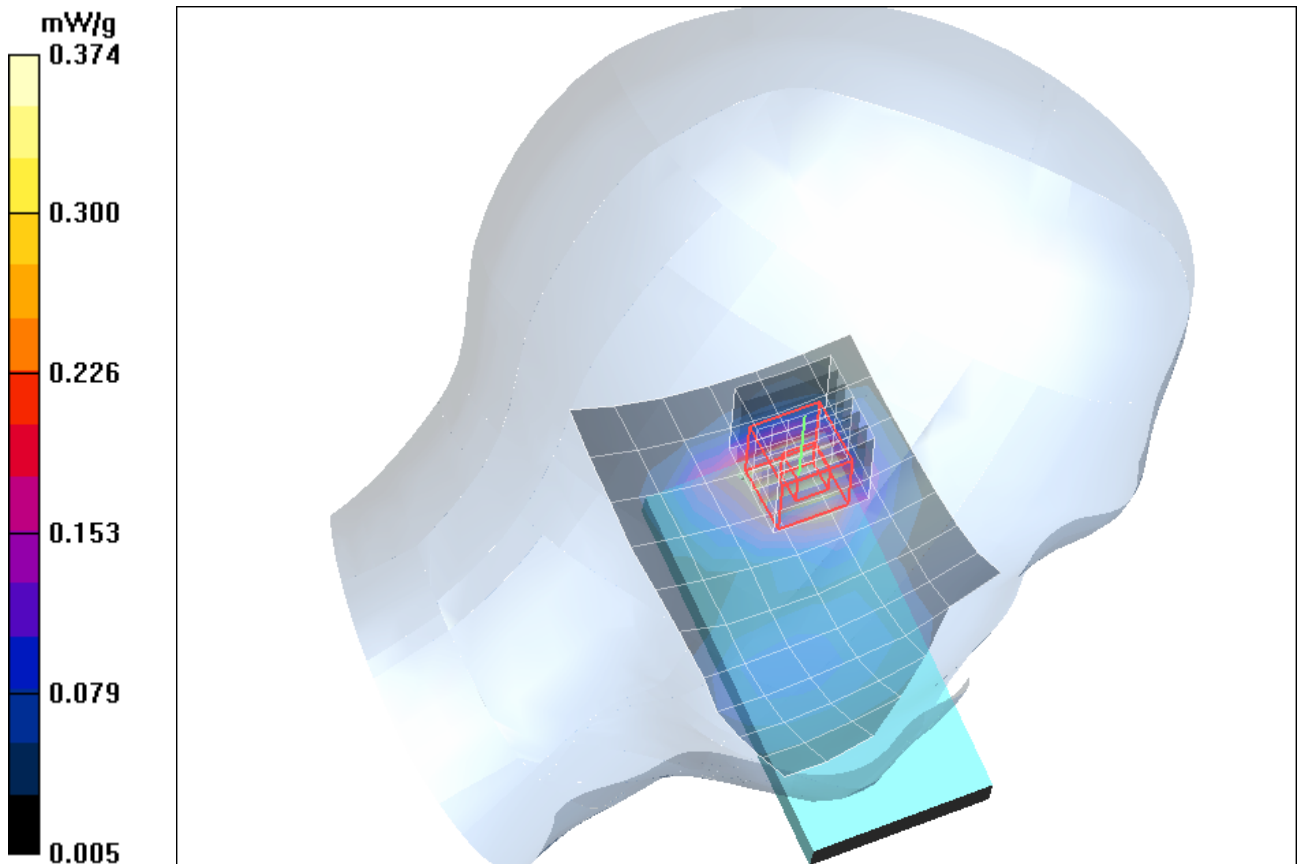


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (November 11, 2011; Ambient Temperature: 22.1° C; Liquid Temperature: 21.7° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yprm_1.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: PCS 1900

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

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

Maximum value of SAR (measured) = 0.738 mW/g

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

Reference Value = 8.75 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.774 mW/g; SAR(10 g) = 0.463 mW/g

Maximum value of SAR (measured) = 0.855 mW/g

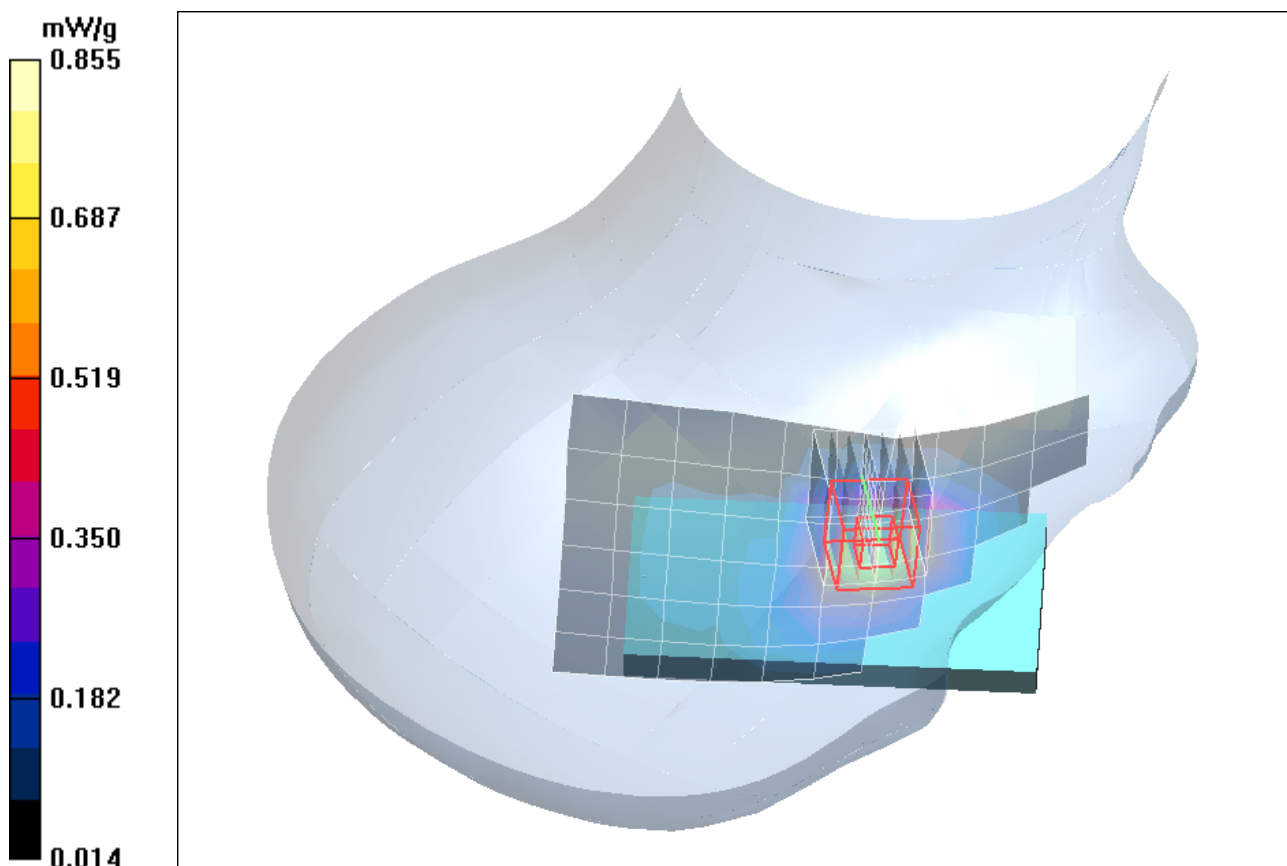


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (November 11, 2011; Ambient Temperature: 22.1° C; Liquid Temperature: 21.7° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yprm_2.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: PCS 1900

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.07, 8.07, 8.07); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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

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

Maximum value of SAR (measured) = 0.265 mW/g

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

Reference Value = 13.7 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.390 W/kg

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.272 mW/g

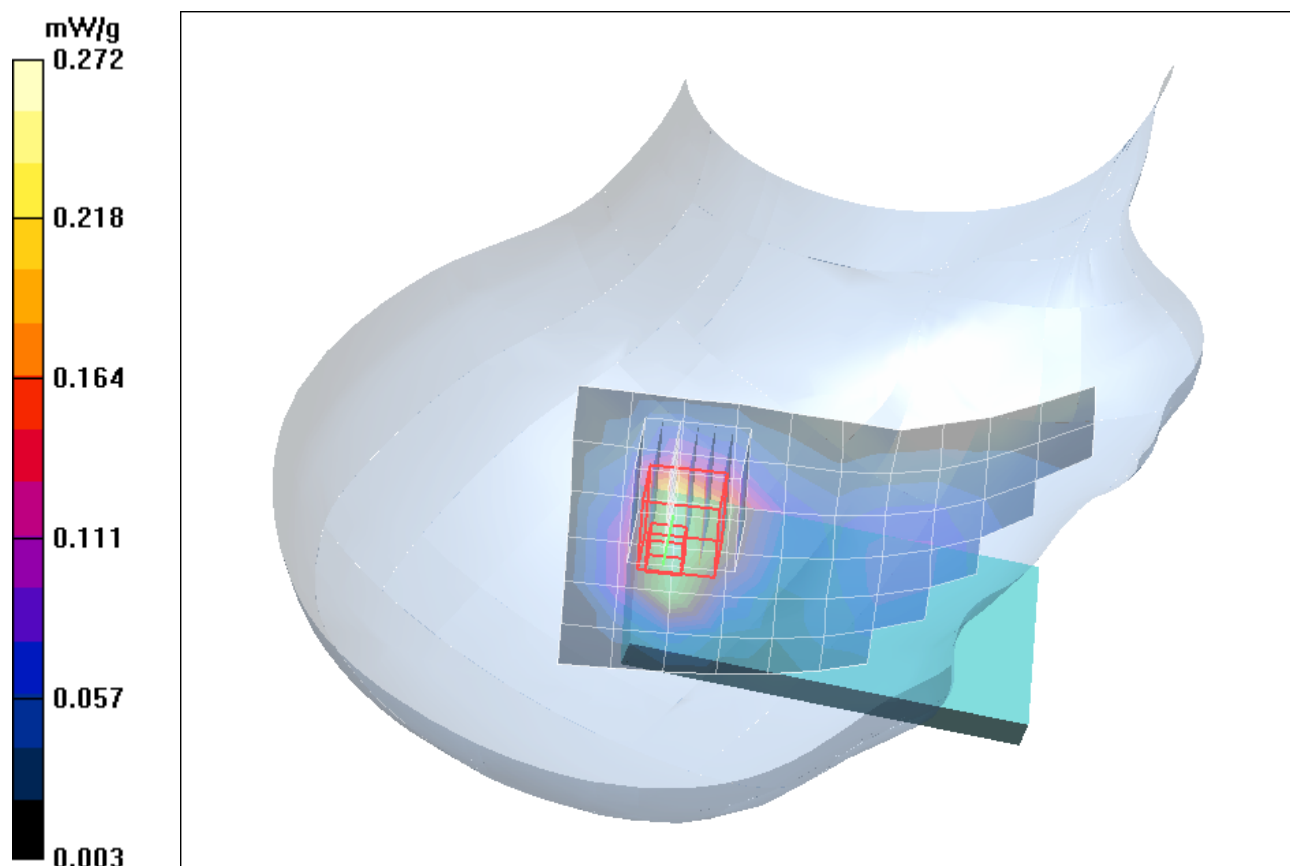


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (November 11, 2011; Ambient Temperature: 22.1° C; Liquid Temperature: 21.7° C).

2 SAR Distribution Plots, PCS/GPRS 1900, Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yphm_1_dspl_up_gprs_15mm.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.66

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.298 mW/g

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

Reference Value = 6.22 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.448 W/kg

SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.294 mW/g

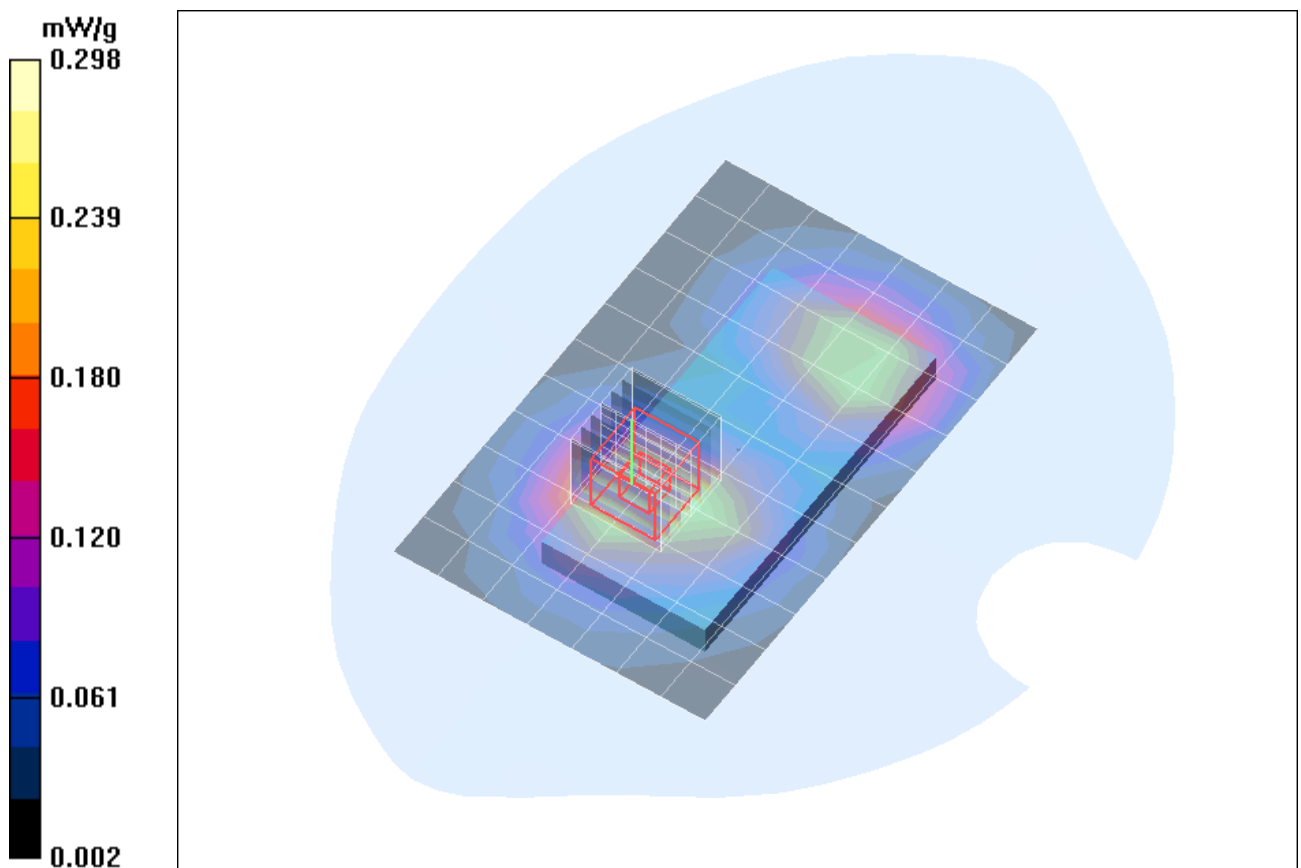


Fig. 5: SAR distribution for GPRS 1900 (Class 11), channel 661, body worn configuration without accessory, display towards the phantom, 15 mm distance (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[F42_yphm_2_dspl_down_gprs_15mm.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.66

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.318 mW/g

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

Reference Value = 5.67 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.322 mW/g

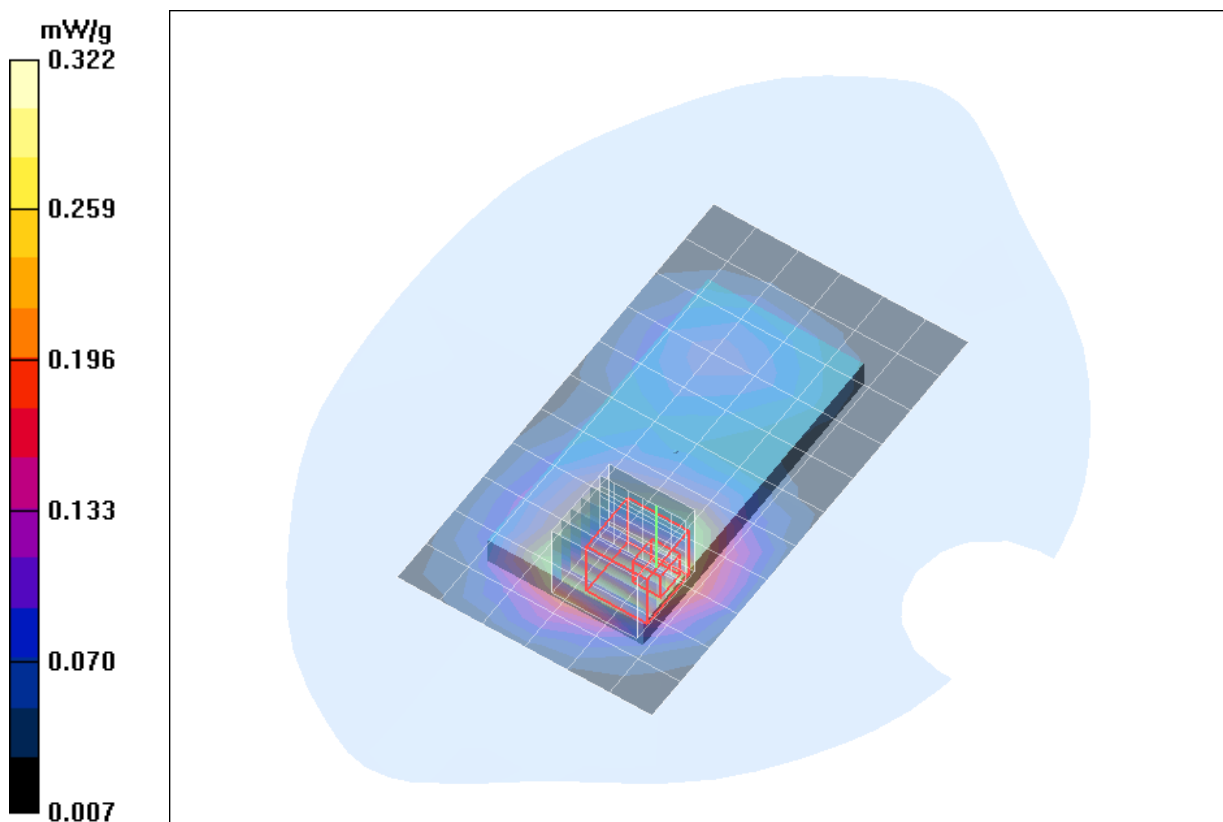


Fig. 6: SAR distribution for GPRS 1900 (Class 11), channel 661, body worn configuration without accessory, display towards the ground, 15 mm distance (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yphm_1_dspl_up_15mm_hs.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: PCS 1900

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.235 mW/g

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

Reference Value = 6.26 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.260 mW/g

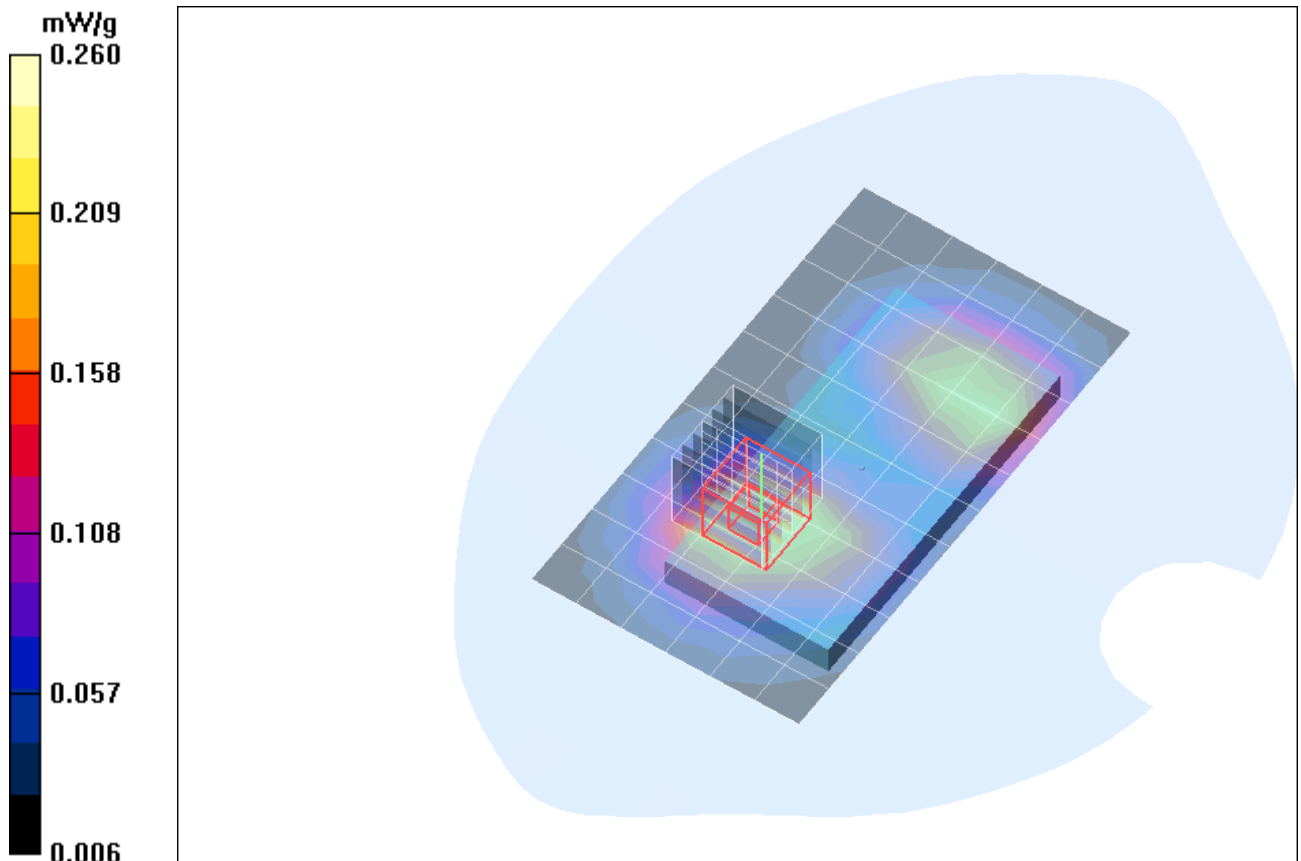


Fig. 7: SAR distribution for PCS 1900, channel 661, body worn configuration with attached headset, display towards the phantom, 15 mm distance (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_yphm_2_dspl_down_15mm_hs.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: PCS 1900

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.264 mW/g

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

Reference Value = 5.12 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 0.413 W/kg

SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.141 mW/g

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

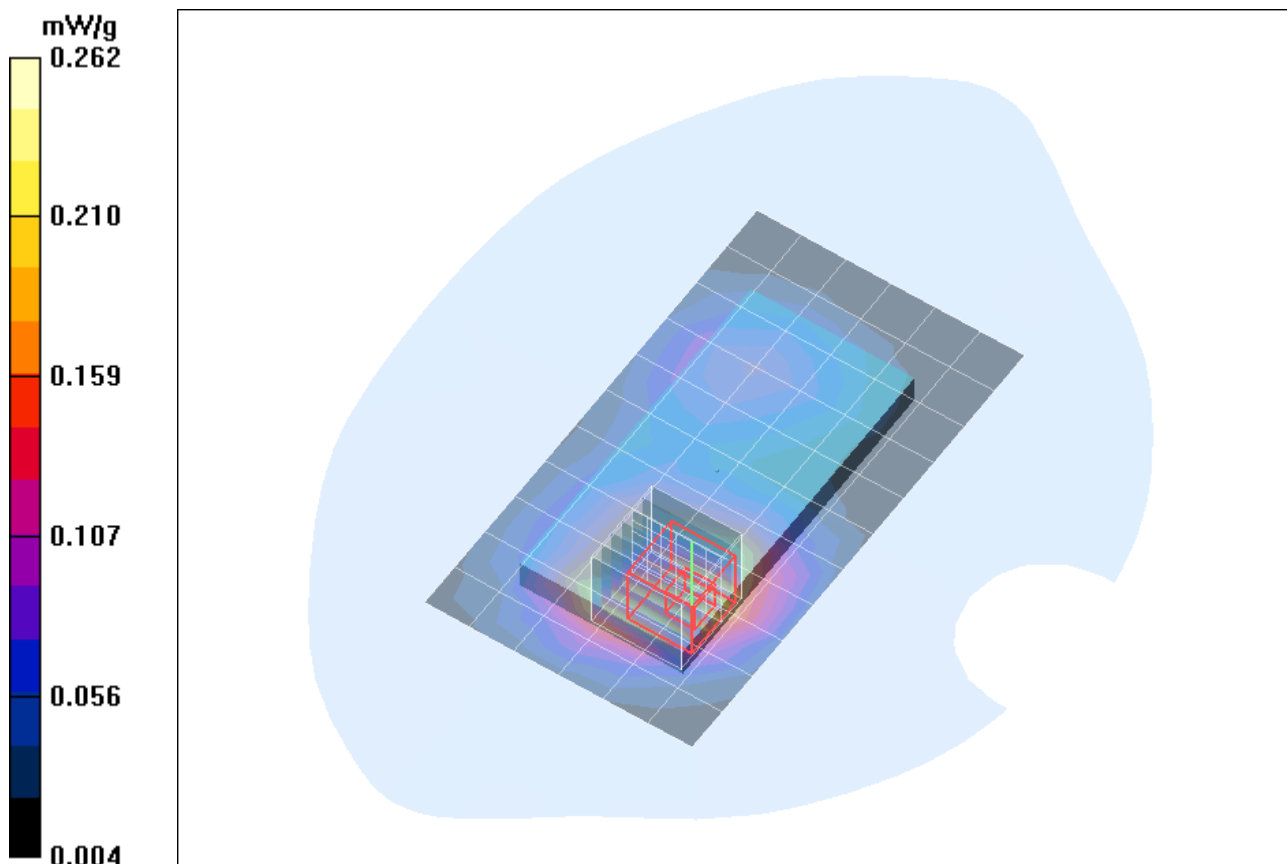


Fig. 8: SAR distribution for PCS 1900, channel 661, body worn configuration with attached headset, display towards the ground, 15 mm distance (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name:

[F42_yphm_2_dspl_down_gprs_10mm.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: GPRS 1900

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.66

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.03, 8.03, 8.03); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.578 mW/g

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

Reference Value = 7.70 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.999 W/kg

SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.308 mW/g

Maximum value of SAR (measured) = 0.598 mW/g

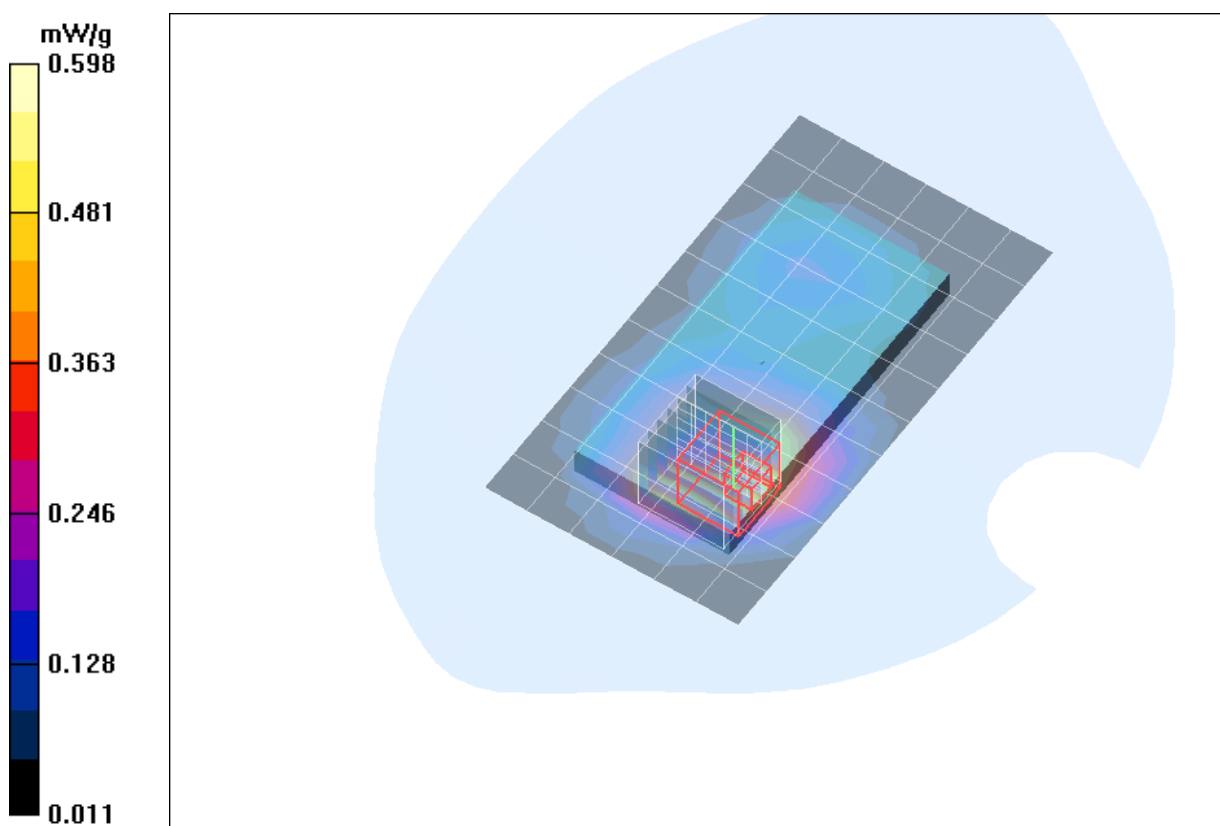


Fig. 9: SAR distribution for GPRS 1900 (Class 11), channel 661, body worn configuration, display towards the ground, 10 mm distance (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

3 SAR Distribution Plots, IEEE 802.11 b, Body

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_ywhm_1_dspl_up_15mm_b.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: IEEE 802.11 b

Communication System: 2.4 GHz; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 21.09.2011
- 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 (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.015 mW/g

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

Reference Value = 2.01 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00776 mW/g

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

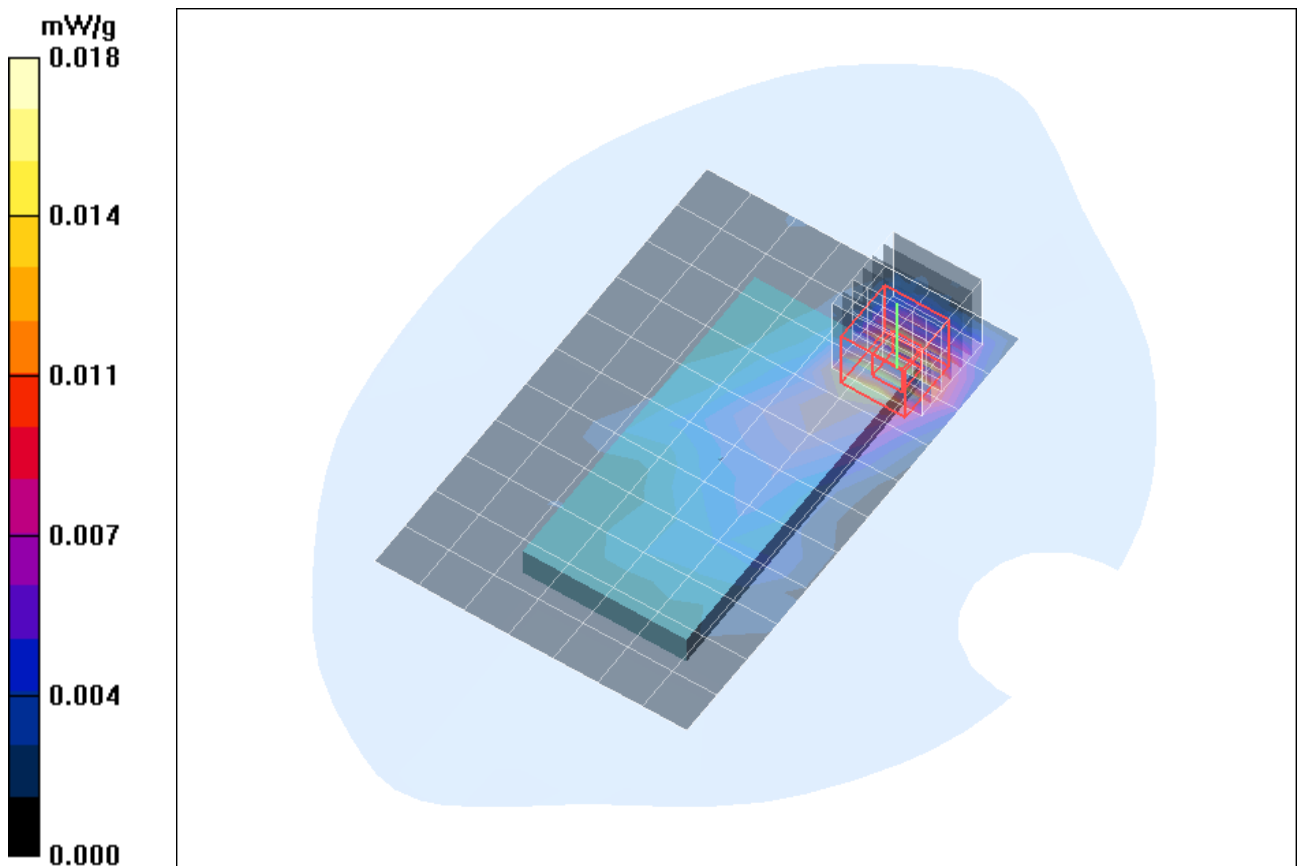


Fig. 10: SAR distribution for b-mode, channel 6, body worn configuration without accessory, display towards the phantom, 15 mm distance (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_ywhh_2_dspl_down_15mm_b.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401564900005

Program Name: IEEE 802.11 b

Communication System: 2.4 GHz; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.014 mW/g

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

Reference Value = 2.37 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.045 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00764 mW/g

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

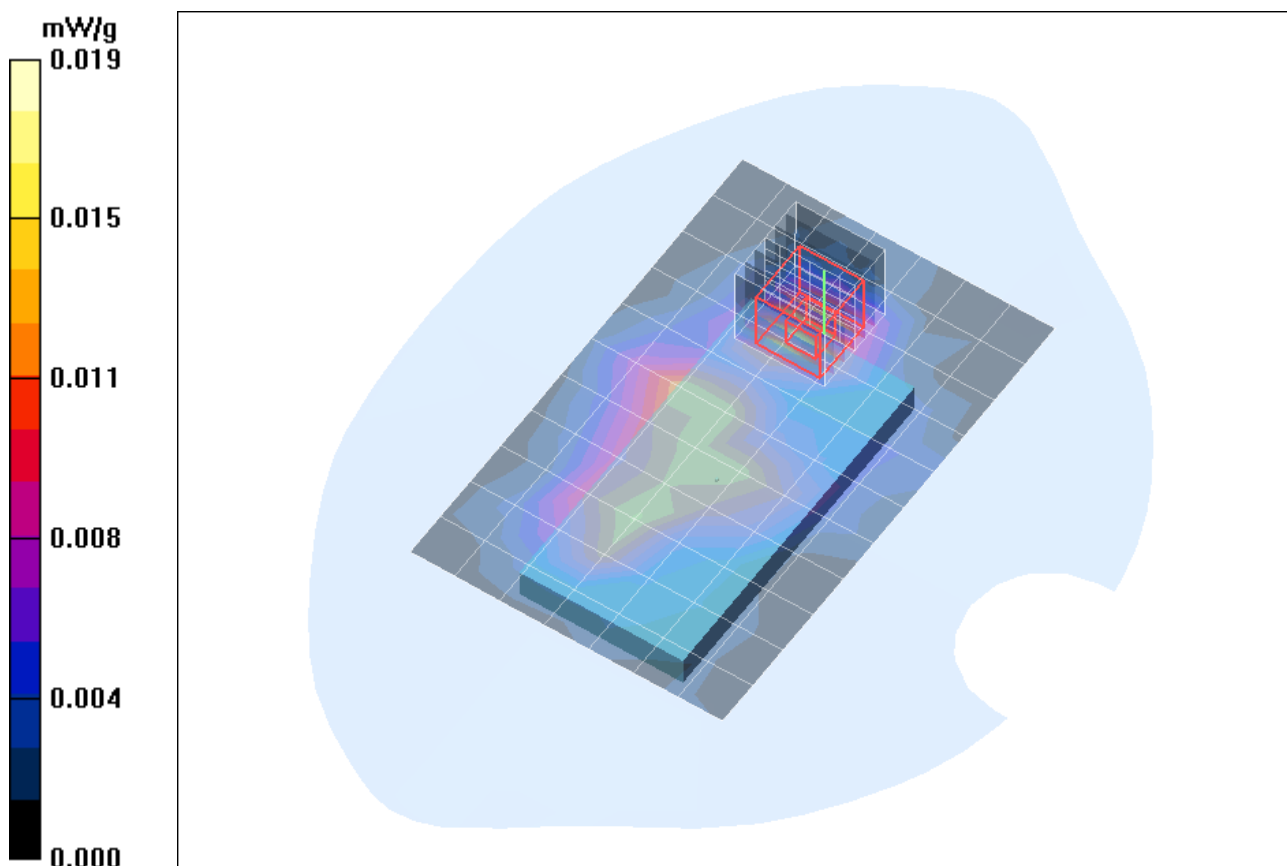


Fig. 11: SAR distribution for b-mode, channel 11, body worn configuration without accessory, display towards the ground, 15 mm distance (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_ywhm_1_dspl_up_15mm_g.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401350042053

Program Name: IEEE 802.11 g

Communication System: 2.4 GHz; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.017 mW/g

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

Reference Value = 1.94 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 0.042 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00718 mW/g

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

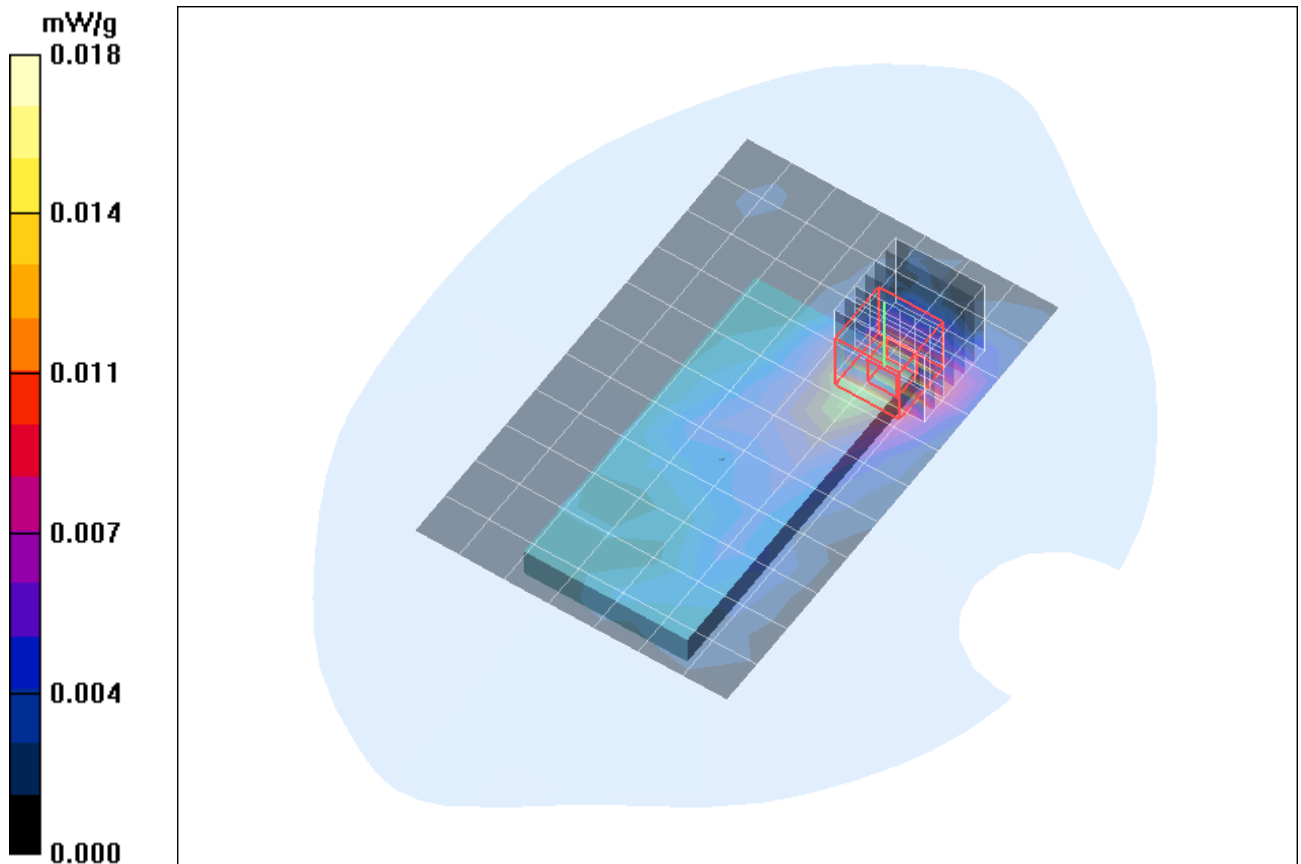


Fig. 12: SAR distribution for g-mode, channel 6, body worn configuration without accessory, display towards the phantom, 15 mm distance (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_ywhh_2_dspl_down_15mm_g.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401350042053

Program Name: IEEE 802.11 g

Communication System: 2.4 GHz; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.017 mW/g

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

Reference Value = 2.46 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.039 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00833 mW/g

Maximum value of SAR (measured) = 0.020 mW/g

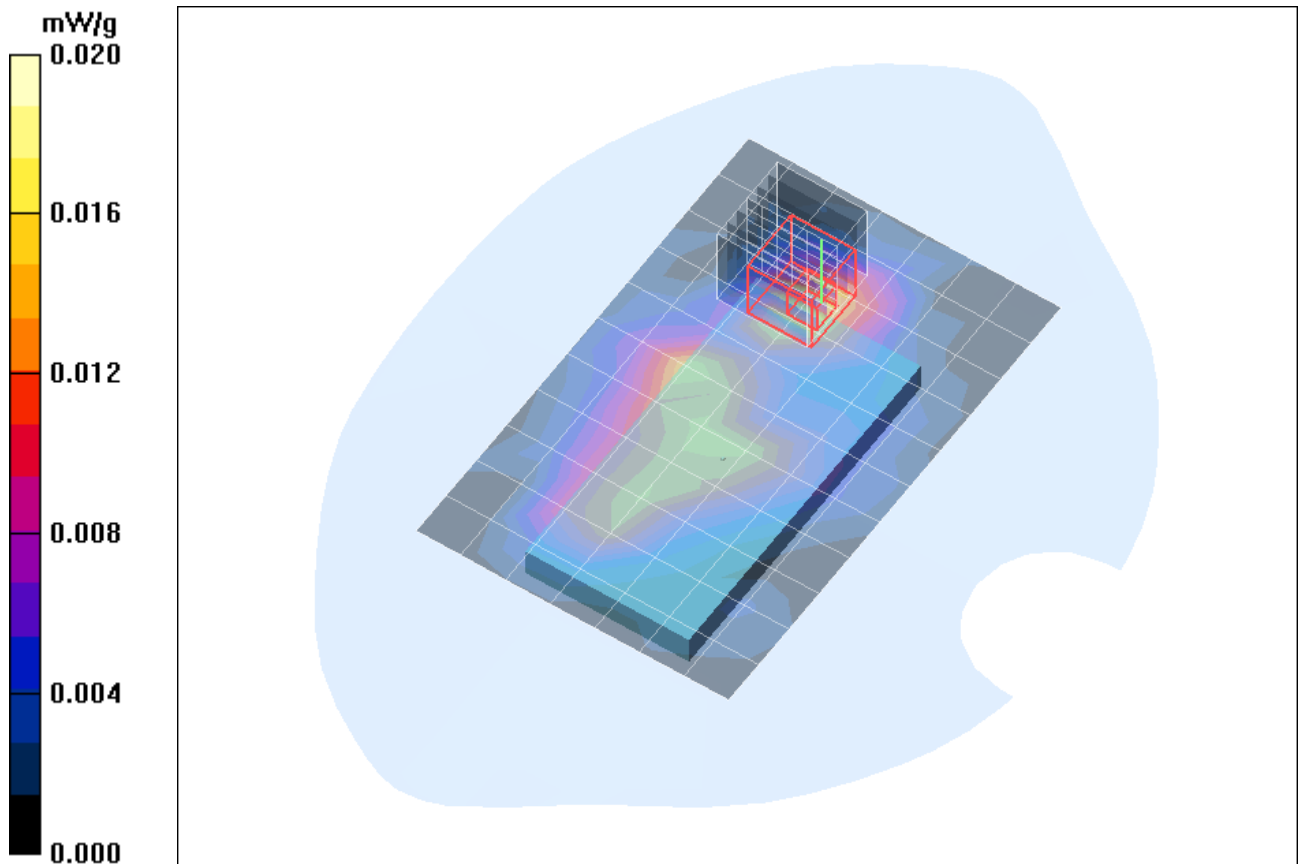


Fig. 13: SAR distribution for g-mode, channel 11, body worn configuration without accessory, display towards the ground, 15 mm distance (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [F42_ywhh_2_dspl_down_15mm_n.da4](#)

DUT: Kyocera; Type: F42; Serial: 004401350042053

Program Name: IEEE 802.11 n

Communication System: 2.4 GHz; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.42, 7.42, 7.42); Calibrated: 26.09.2011

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

- Electronics: DAE4 Sn631; Calibrated: 21.09.2011

- 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 (8x12x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 2.38 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00755 mW/g

Maximum value of SAR (measured) = 0.017 mW/g

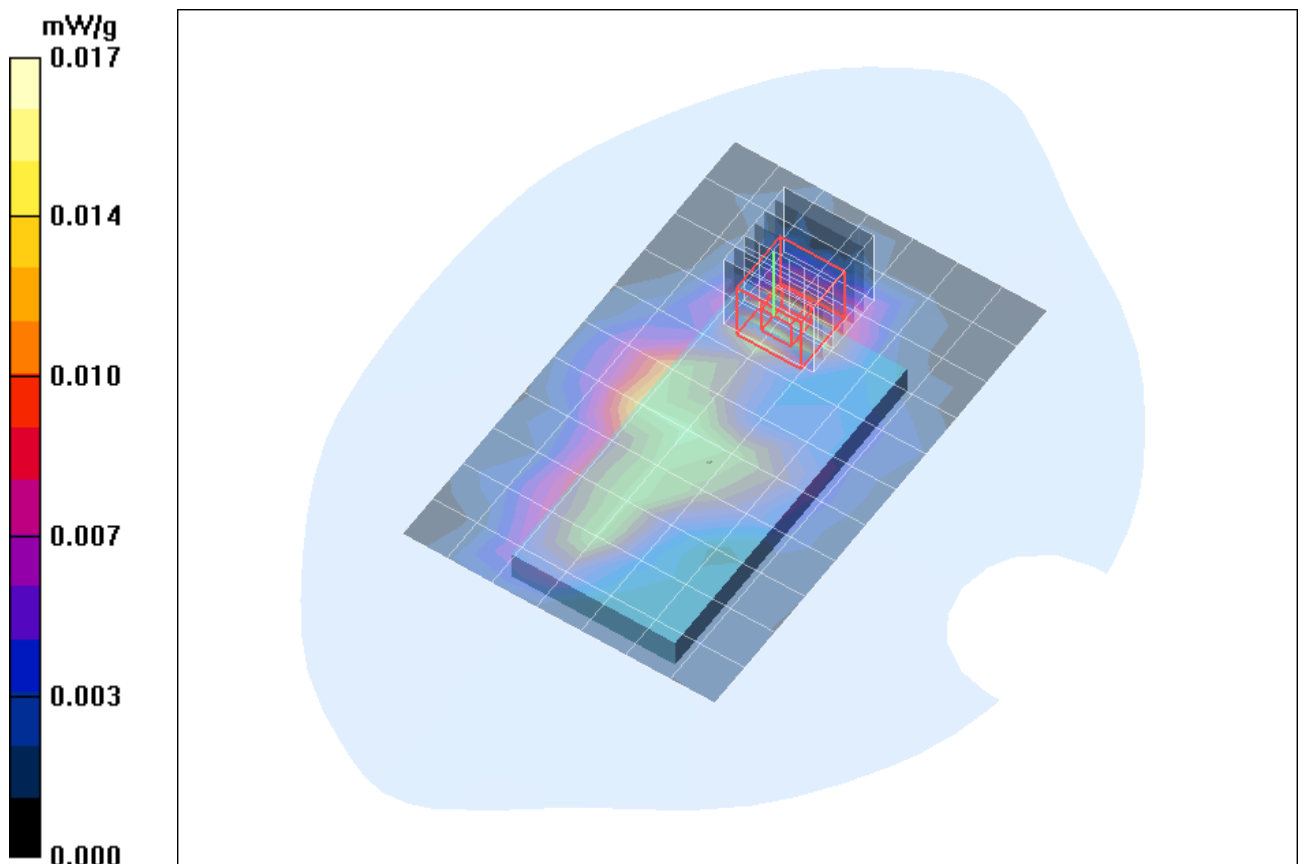


Fig. 14: SAR distribution for n-mode, channel 11, body worn configuration without accessory, display towards the ground, 15 mm distance (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

4 SAR Z-axis Scans (Validation)

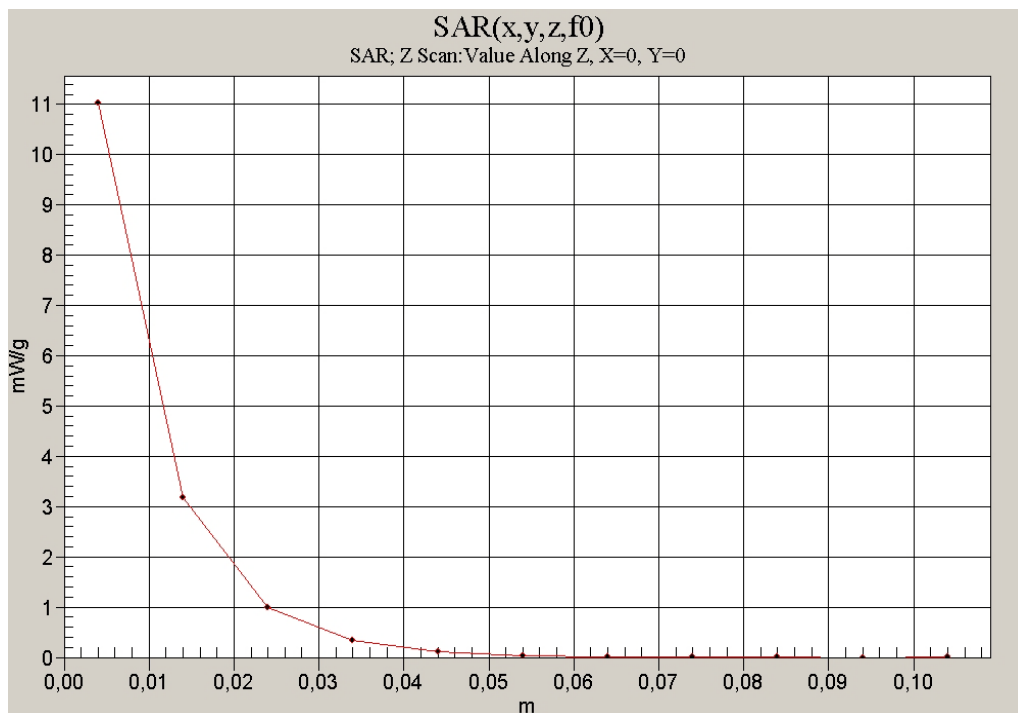


Fig. 15: SAR versus liquid depth, 1900 MHz, head (PCS 1900) (November 11, 2011; Ambient Temperature: 22.3° C; Liquid Temperature: 21.8° C).

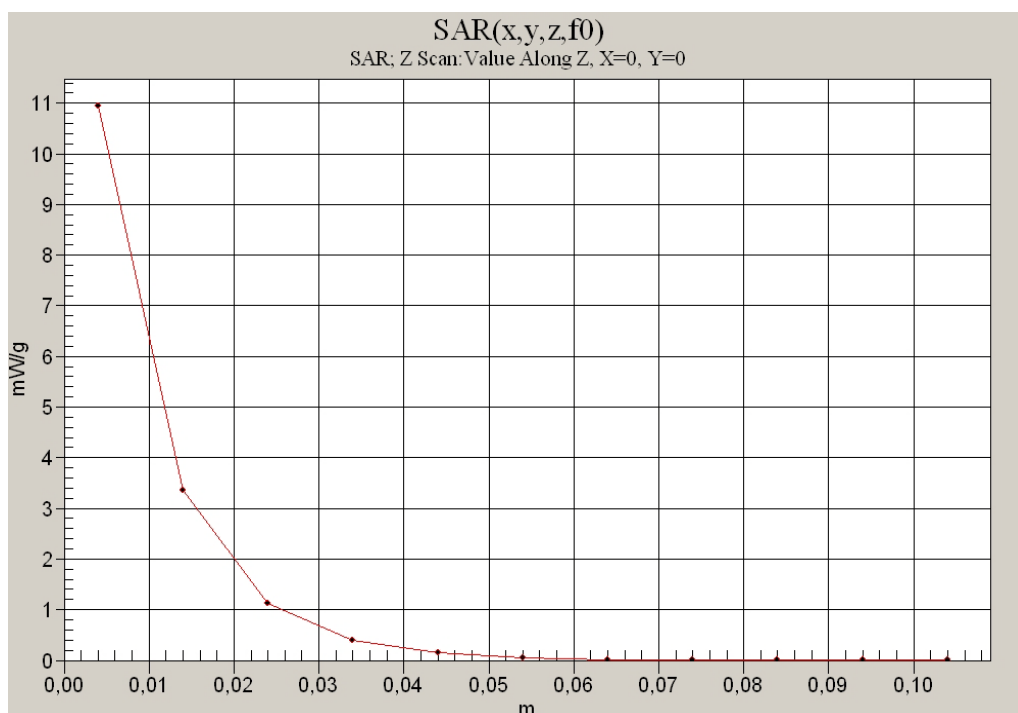


Fig. 16: SAR versus liquid depth, 1900 MHz, body (GPRS 1900) (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

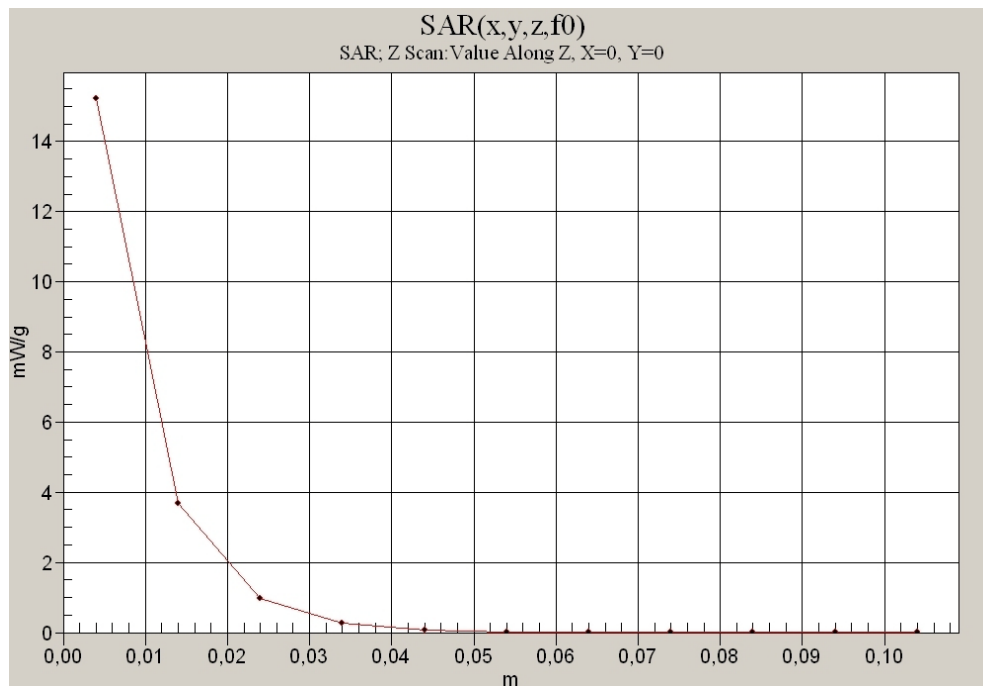


Fig. 17: SAR versus liquid depth, 2450 MHz, body (IEEE 802.11) (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).

5 SAR Z-axis Scans (Measurements)

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

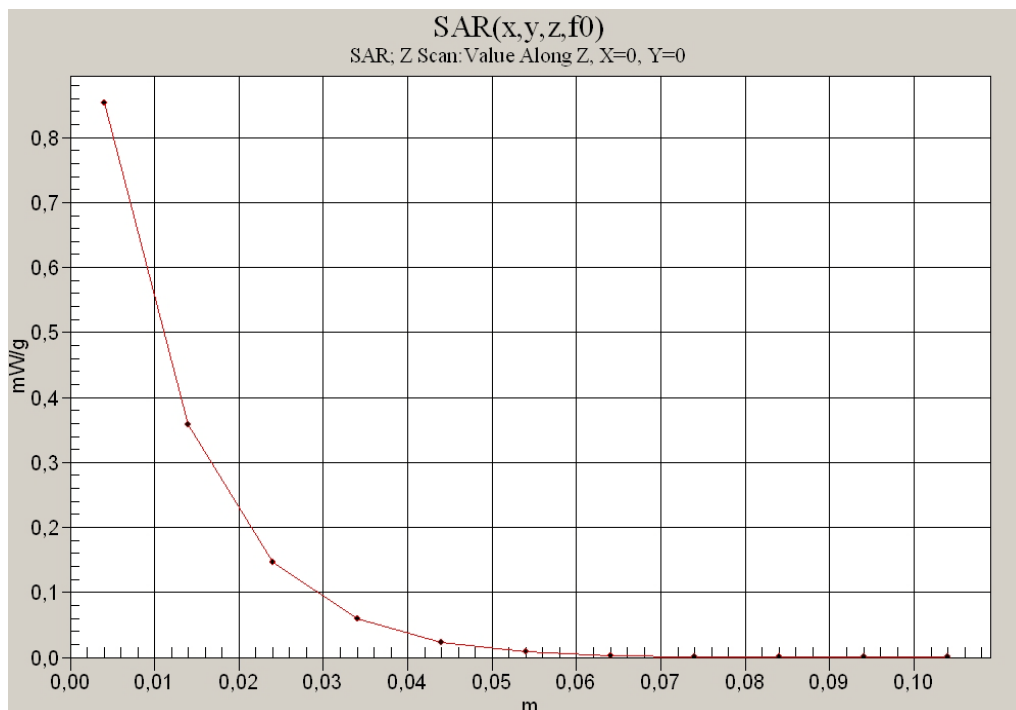


Fig. 18: SAR versus liquid depth, head: PCS 1900, channel 661, cheek position, right side of head (November 11, 2011; Ambient Temperature: 22.1° C; Liquid Temperature: 21.7° C).

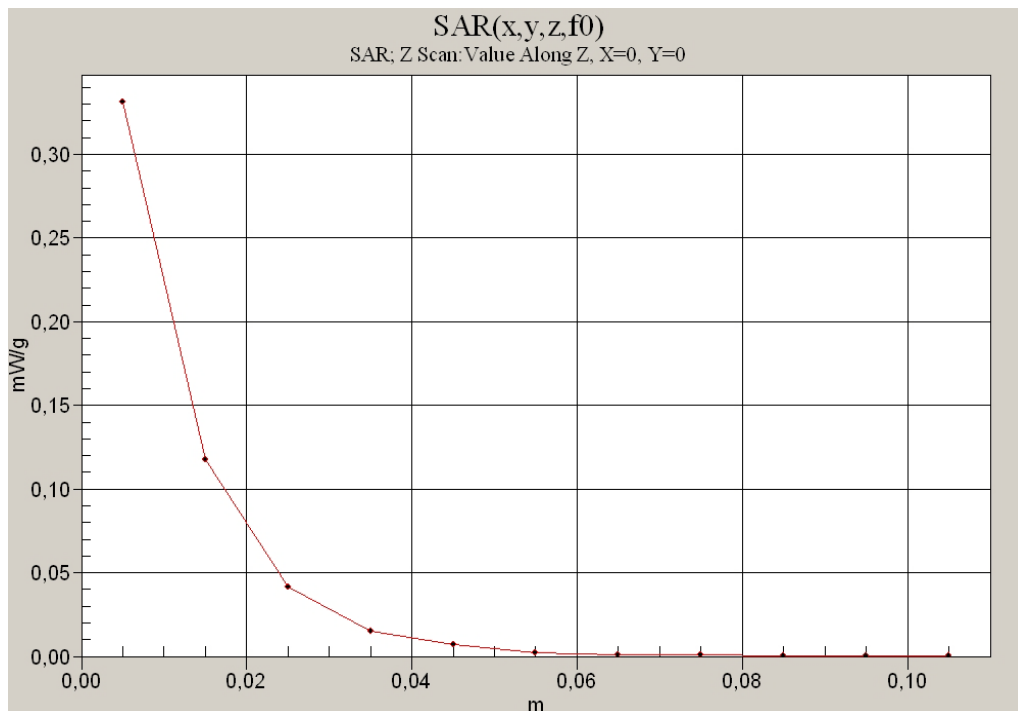


Fig. 19: SAR versus liquid depth, body: GPRS 1900 (Class 11), channel 661, display towards the ground (November 11, 2011; Ambient Temperature: 21.8° C; Liquid Temperature: 21.6° C).

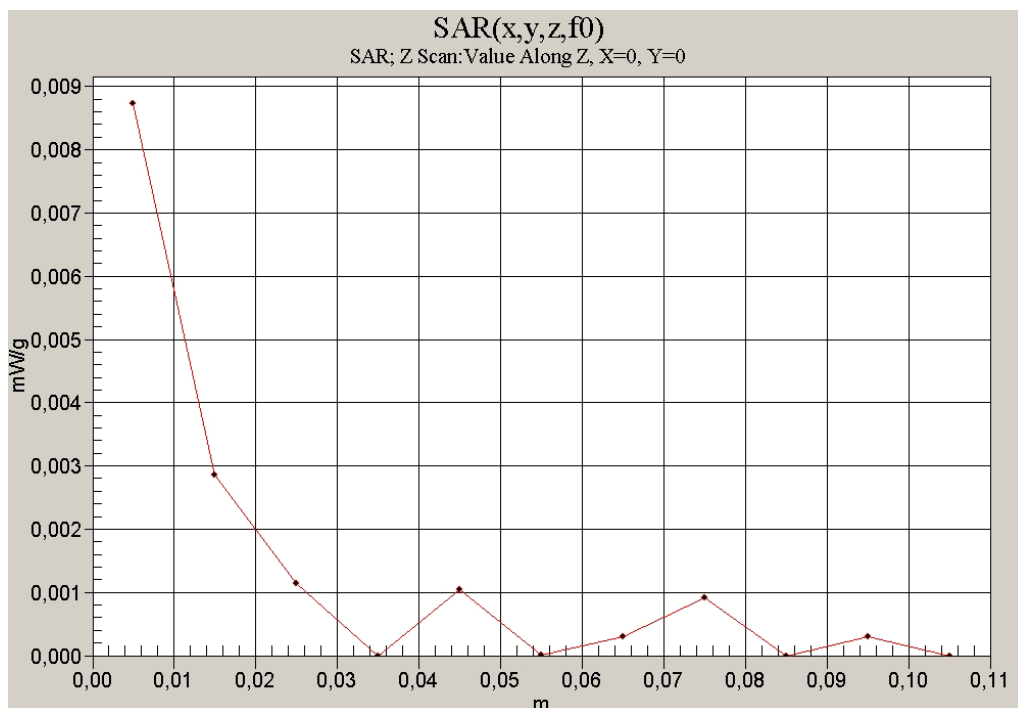


Fig. 20: SAR versus liquid depth, body: 802.11 g, channel 11, display towards the ground (November 14, 2011; Ambient Temperature: 22.0° C; Liquid Temperature: 21.6° C).