
Appendix for the Report

Dosimetric Assessment of the Portable Device GI0461 from Option (FCC ID: NCMOGI0461) tested in one host product

According to the FCC Requirements

SAR Distribution Plots

October 05, 2009

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

**Customer
Option N.V.
Gaston Geenslaan 14
B-3001 Leuven**

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, GPRS 850 BODY	3
2	SAR DISTRIBUTION PLOTS, EDGE 850 BODY	8
3	SAR DISTRIBUTION PLOTS, GPRS 1900 BODY	13
4	SAR DISTRIBUTION PLOTS, EDGE 1900 BODY	22
5	AR DISTRIBUTION PLOTS, WCDMA FCC V BODY	31
6	SAR DISTRIBUTION PLOTS, WCDMA FDD II BODY	38
7	SAR Z-AXIS SCANS (VALIDATION)	49
8	SAR Z-AXIS SCANS (MEASUREMENTS).....	51

1 SAR Distribution Plots, GPRS 850 Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_1.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

GPRS 850/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.514 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.304 mW/g

Maximum value of SAR (measured) = 0.530 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.154 mW/g

Maximum value of SAR (measured) = 0.267 mW/g

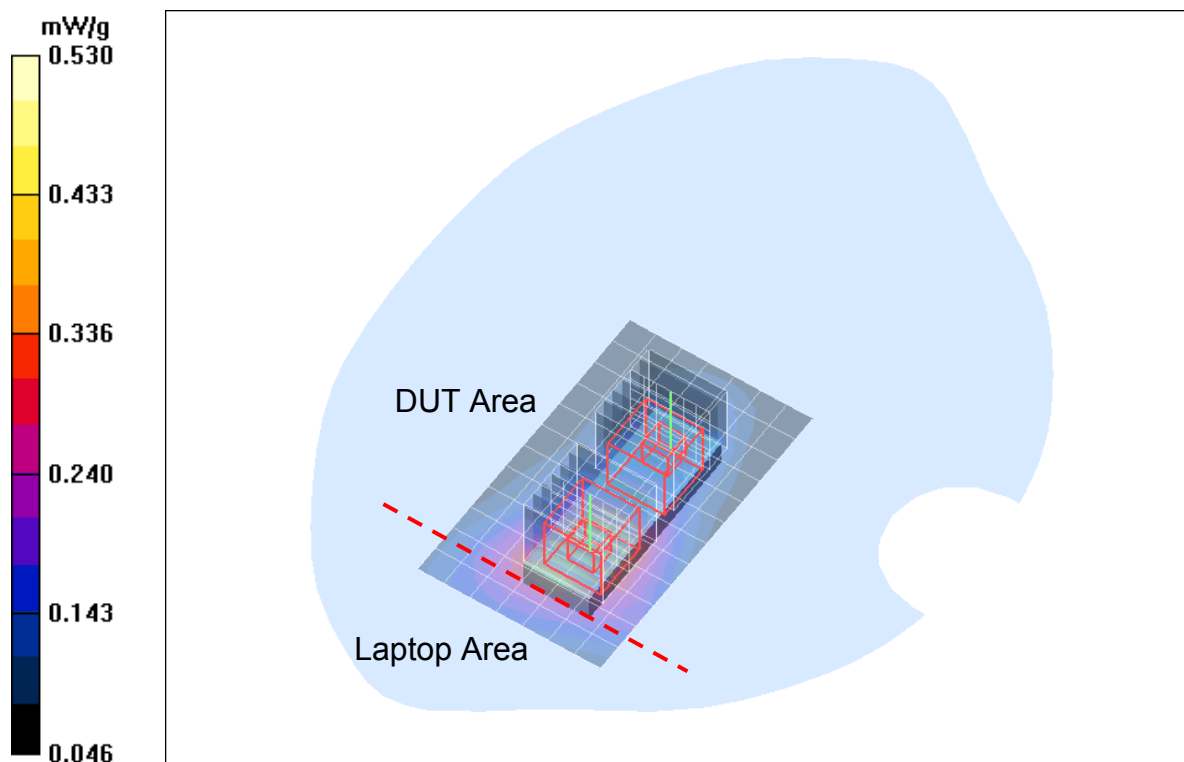


Fig. 1: Worst case SAR distribution for GPRS 850 (Class 10), channel 190, Position A (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_2.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

GPRS 850/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.465 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.647 W/kg

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.283 mW/g

Maximum value of SAR (measured) = 0.470 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.409 mW/g

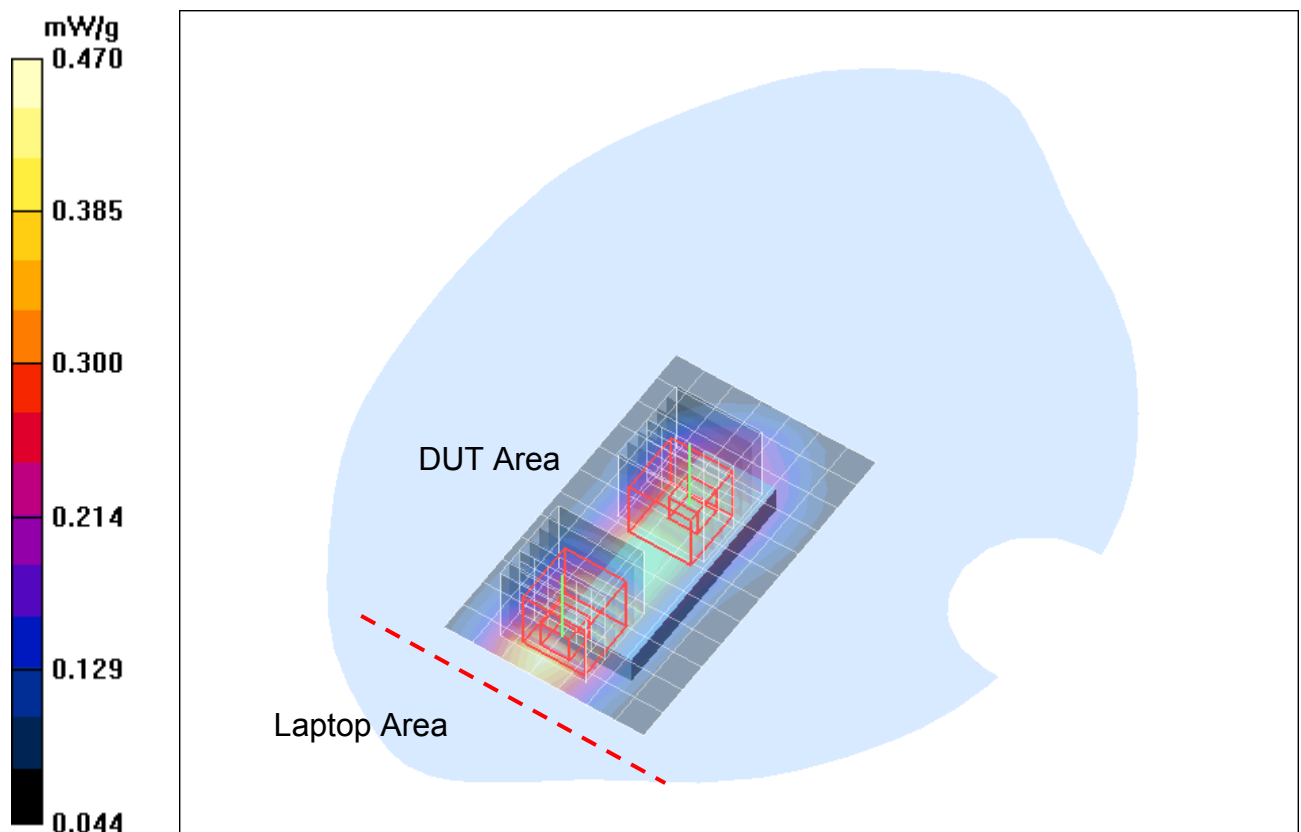


Fig. 2: Worst case SAR distribution for GPRS 850 (Class 10), channel 190, Position B (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_3.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

GPRS 850/Area Scan (8x15x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.216 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.238 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 0.243 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.190 mW/g

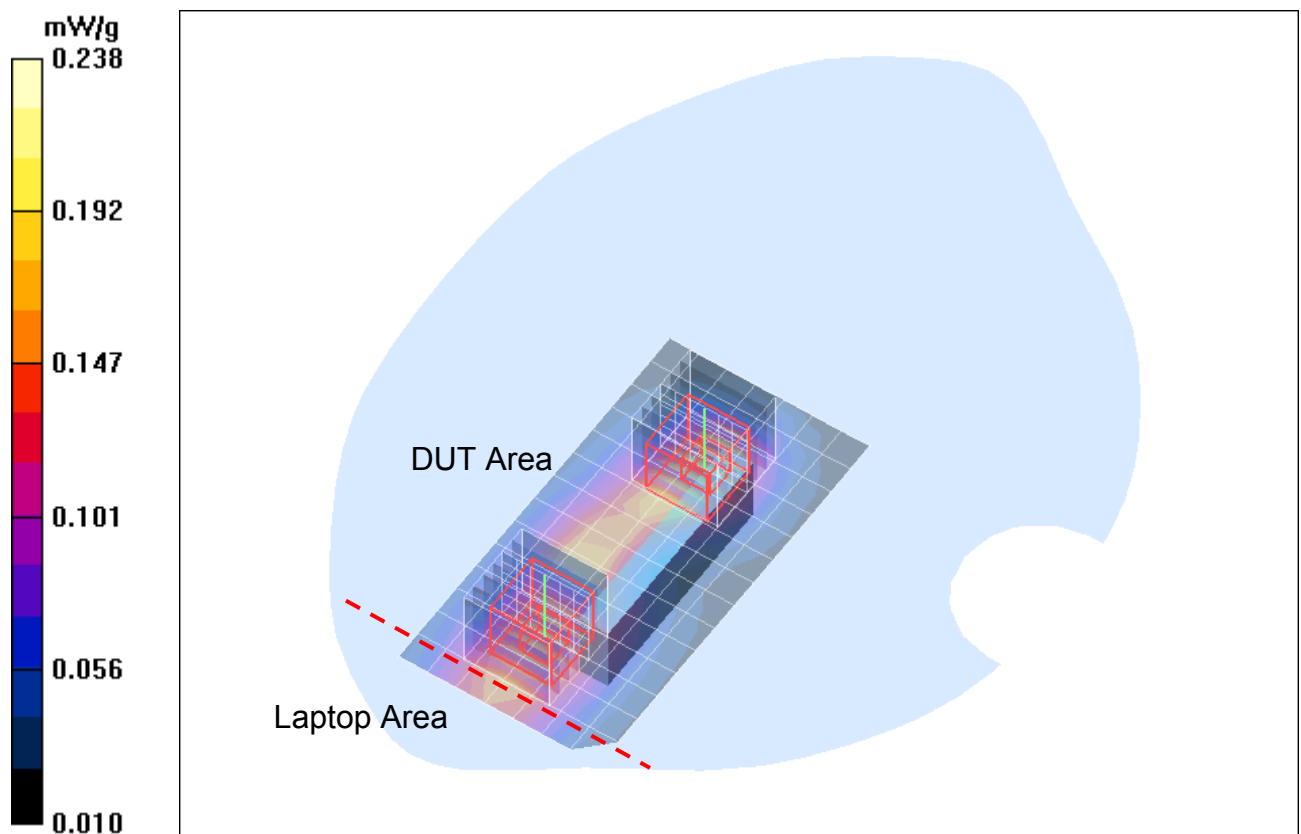


Fig. 3: SAR distribution for GPRS 850 (Class 10), channel 190, Position C (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_4.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

GRPS 850/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.612 mW/g

GRPS 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.07 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.384 mW/g

Maximum value of SAR (measured) = 0.649 mW/g

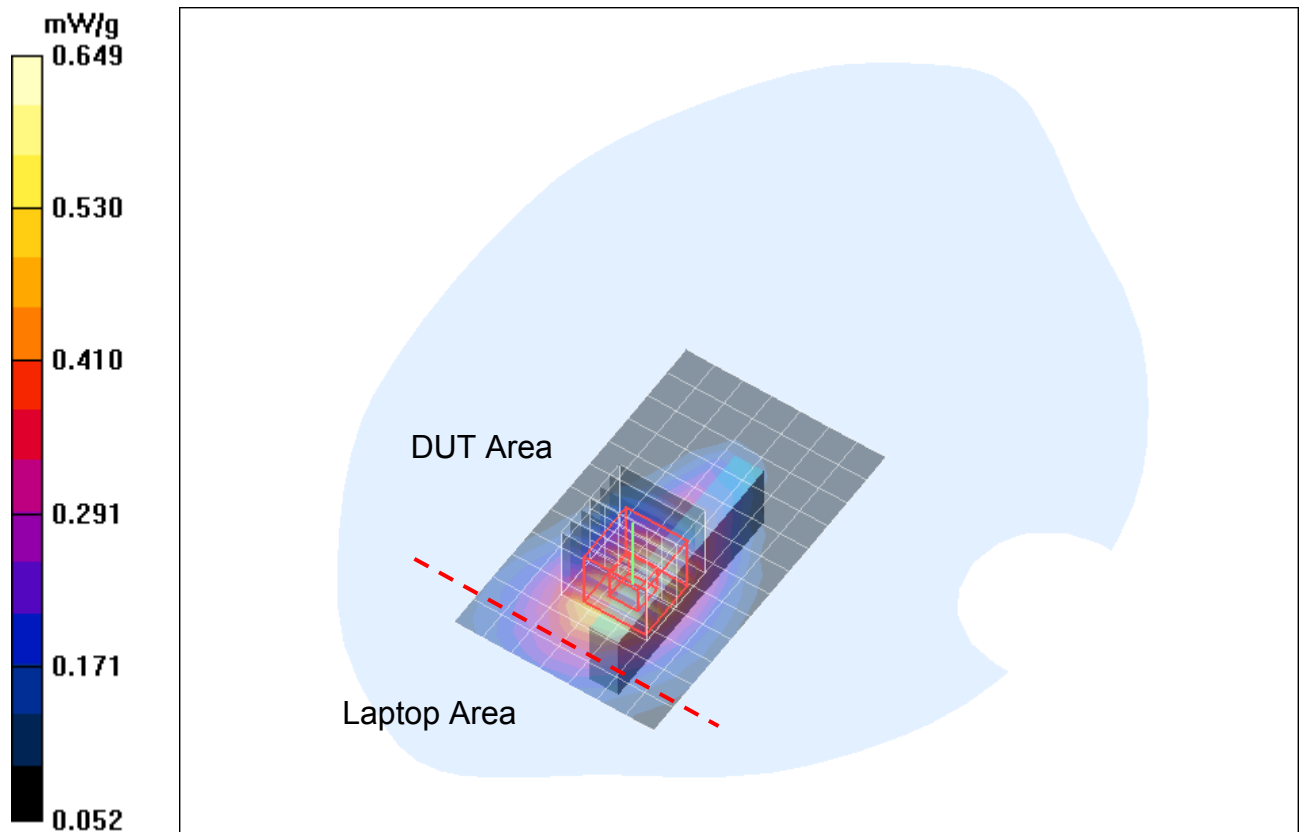


Fig. 4: SAR distribution for GPRS 850 (Class 10), channel 190, Position D (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_5.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

GPRS 850/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.080 mW/g

GPRS 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.335 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.096 mW/g

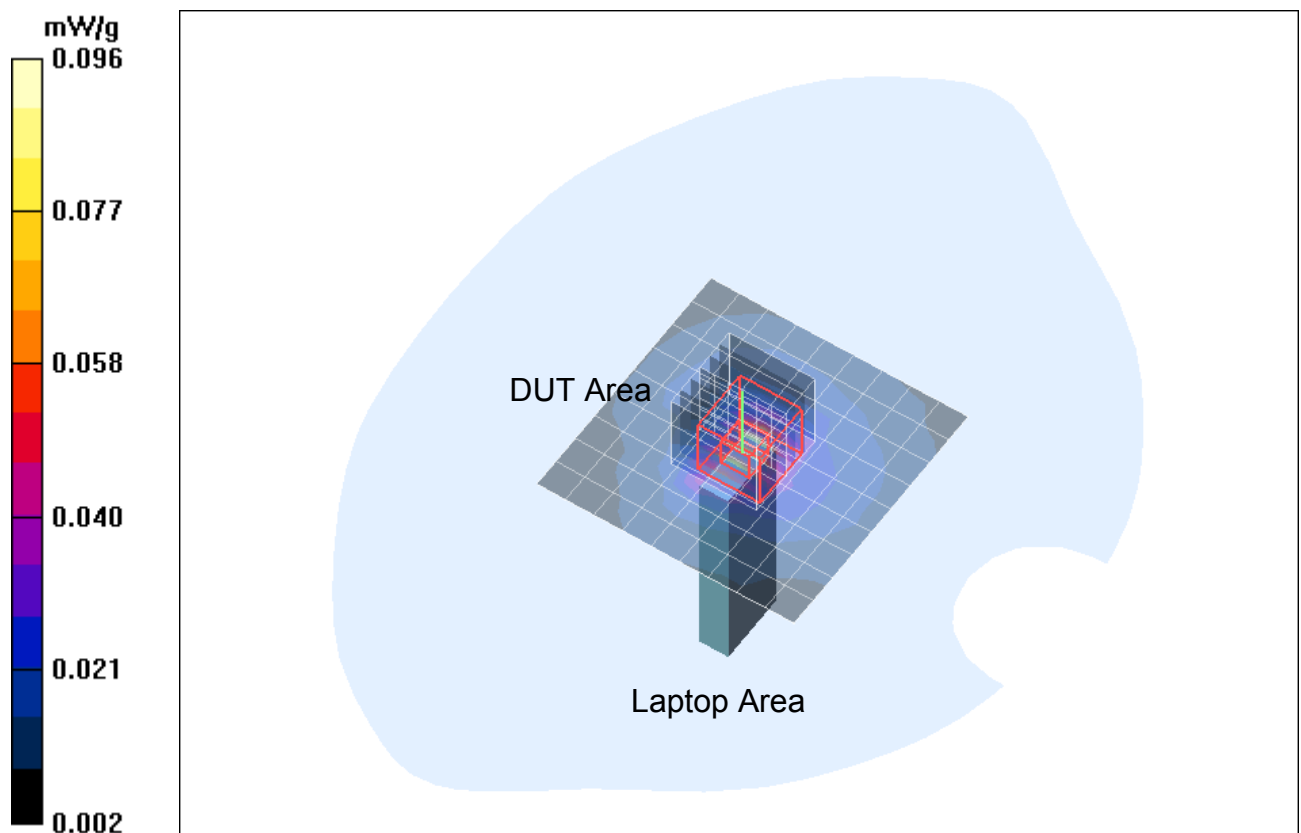


Fig. 5: SAR distribution for GPRS 850 (Class 10), channel 190, Position E (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

2 SAR Distribution Plots, EDGE 850 Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_1_edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

EDGE 850/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.522 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.303 mW/g

Maximum value of SAR (measured) = 0.523 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.155 mW/g

Maximum value of SAR (measured) = 0.269 mW/g

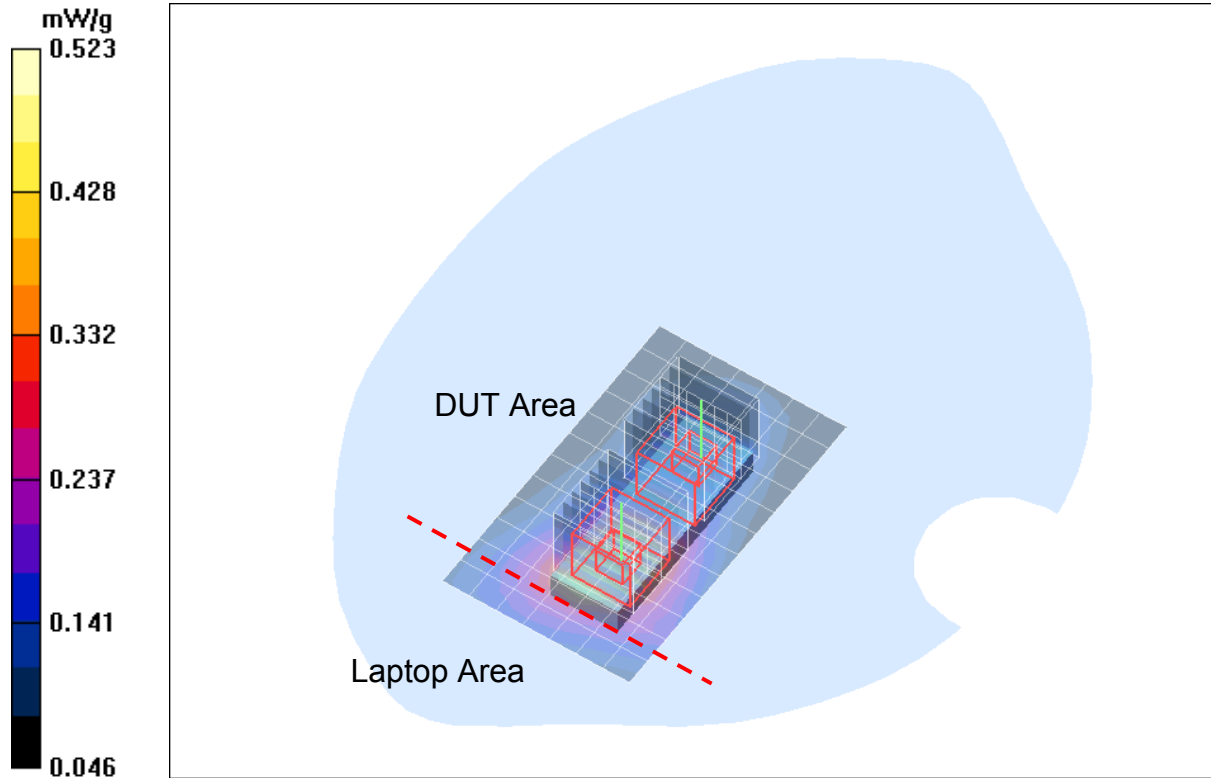


Fig. 6: Worst case SAR distribution for EDGE 850 (Class 10), channel 190, Position A (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_2_edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

EDGE 850/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.463 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 0.476 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.248 mW/g

Maximum value of SAR (measured) = 0.410 mW/g

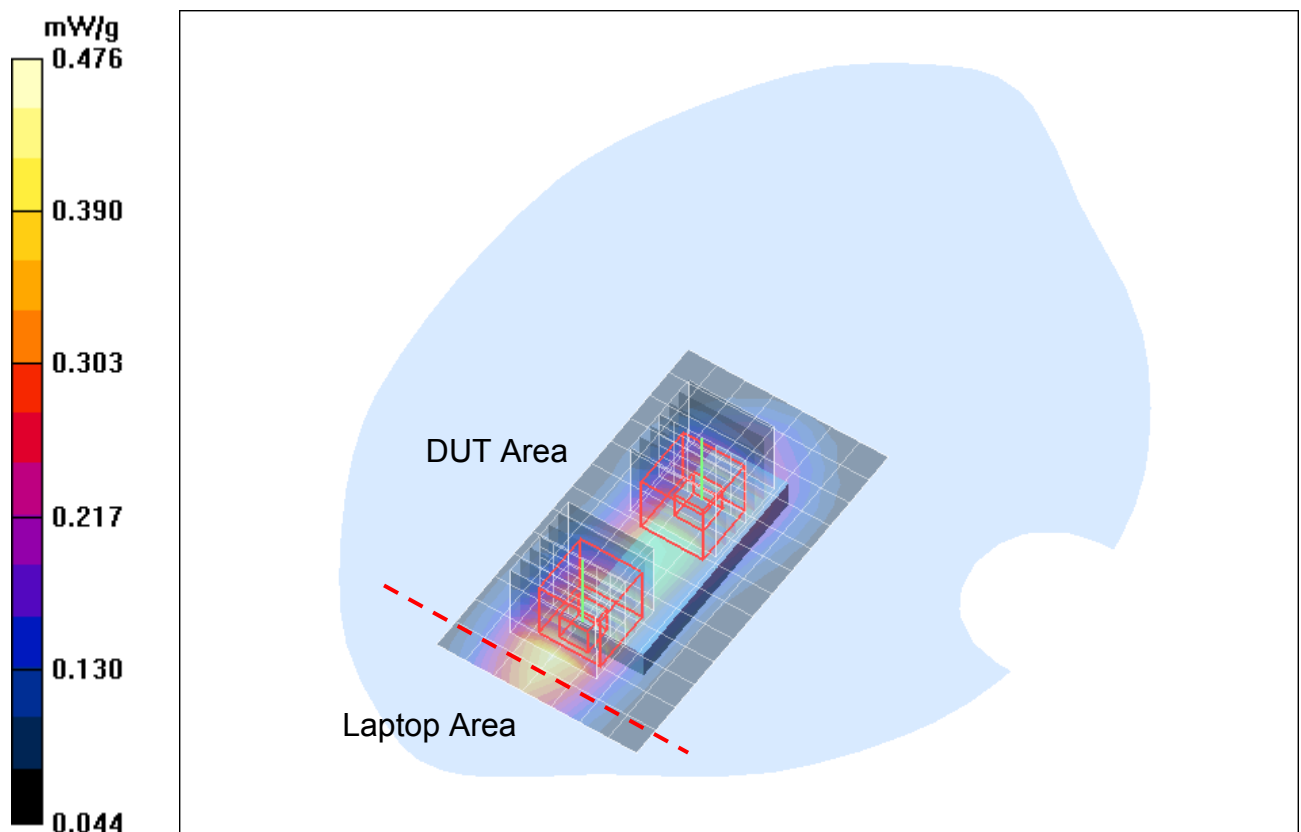


Fig. 7: Worst case SAR distribution for EDGE 850 (Class 10), channel 190, Position B (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_3_edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

EDGE 850/Area Scan (8x15x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.214 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.237 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.191 mW/g

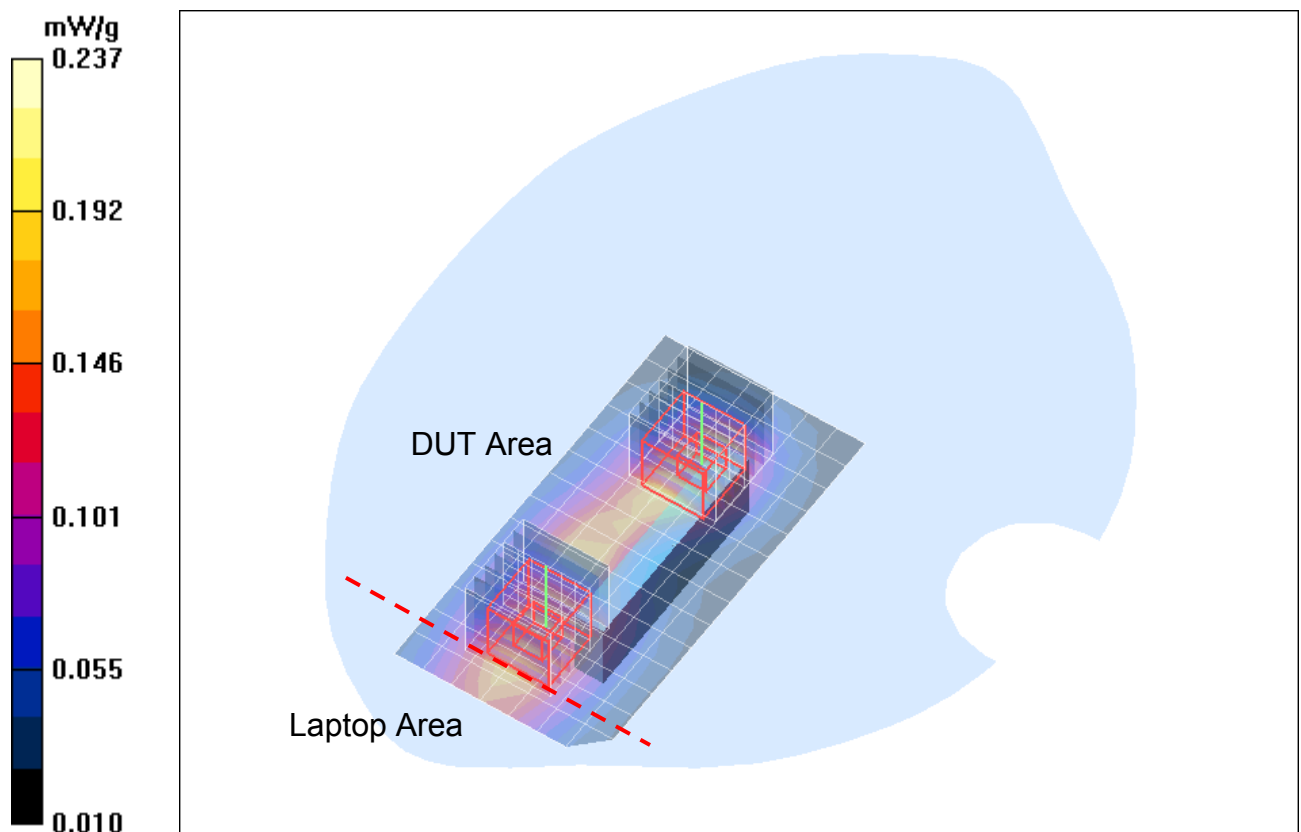


Fig. 8: SAR distribution for EDGE 850 (Class 10), channel 190, Position C (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_4_edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

EDGE 850/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.594 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.26 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.592 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.643 mW/g

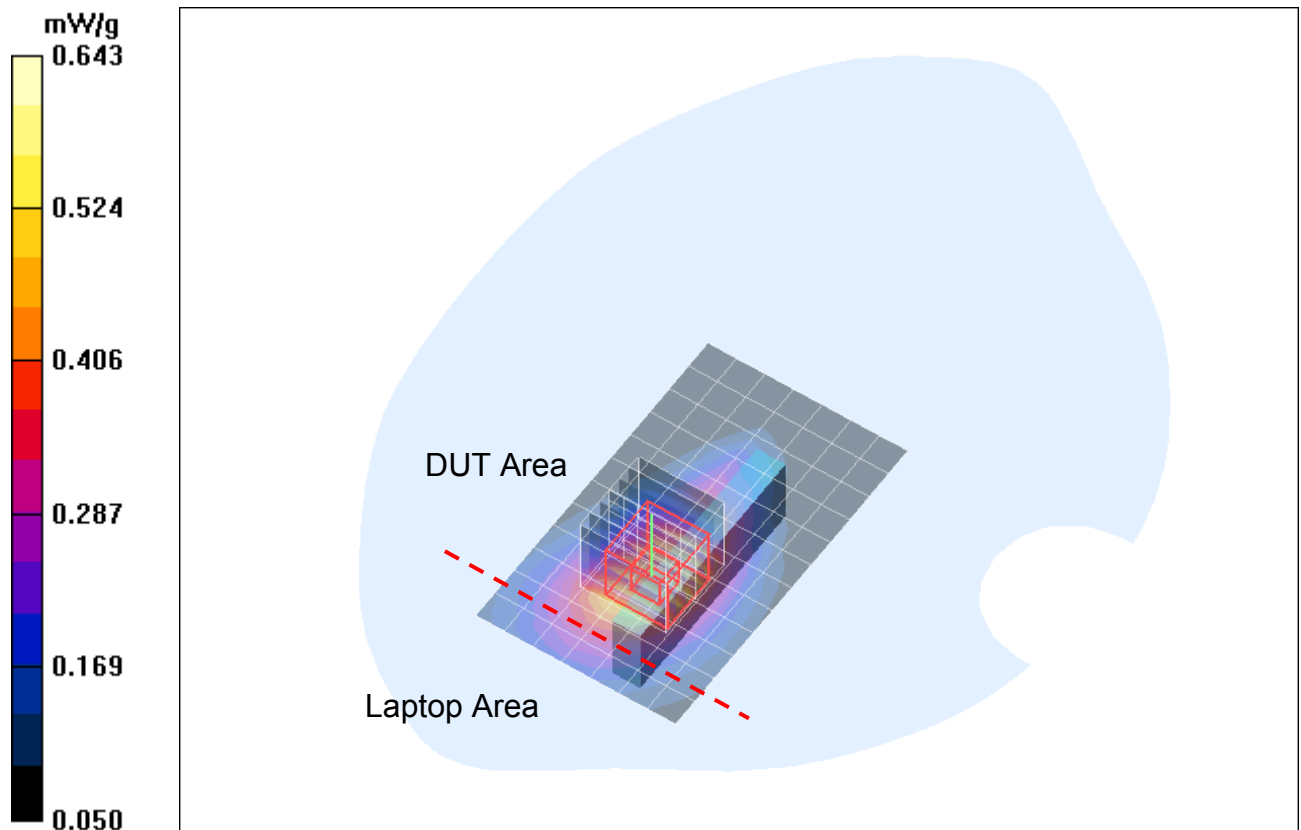


Fig. 9: SAR distribution for EDGE 850 (Class 10), channel 190, Position D (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bahm_5_edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 850; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

EDGE 850/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.081 mW/g

EDGE 850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 0.303 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.098 mW/g

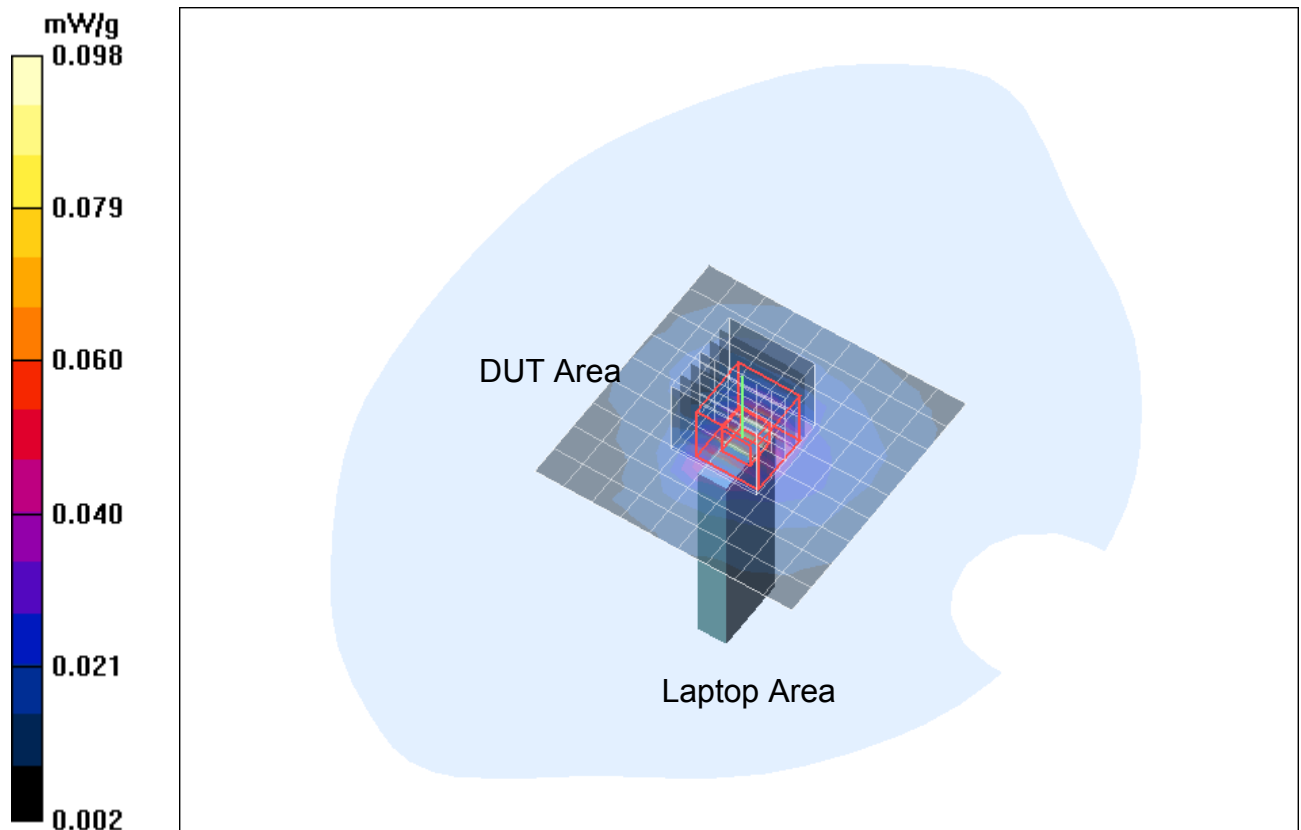


Fig. 10: SAR distribution for EDGE 850 (Class 10), channel 190, Position E (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

3 SAR Distribution Plots, GPRS 1900 Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphl 1.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 1900/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.19 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.604 mW/g

Maximum value of SAR (measured) = 1.22 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.369 mW/g

Maximum value of SAR (measured) = 0.712 mW/g

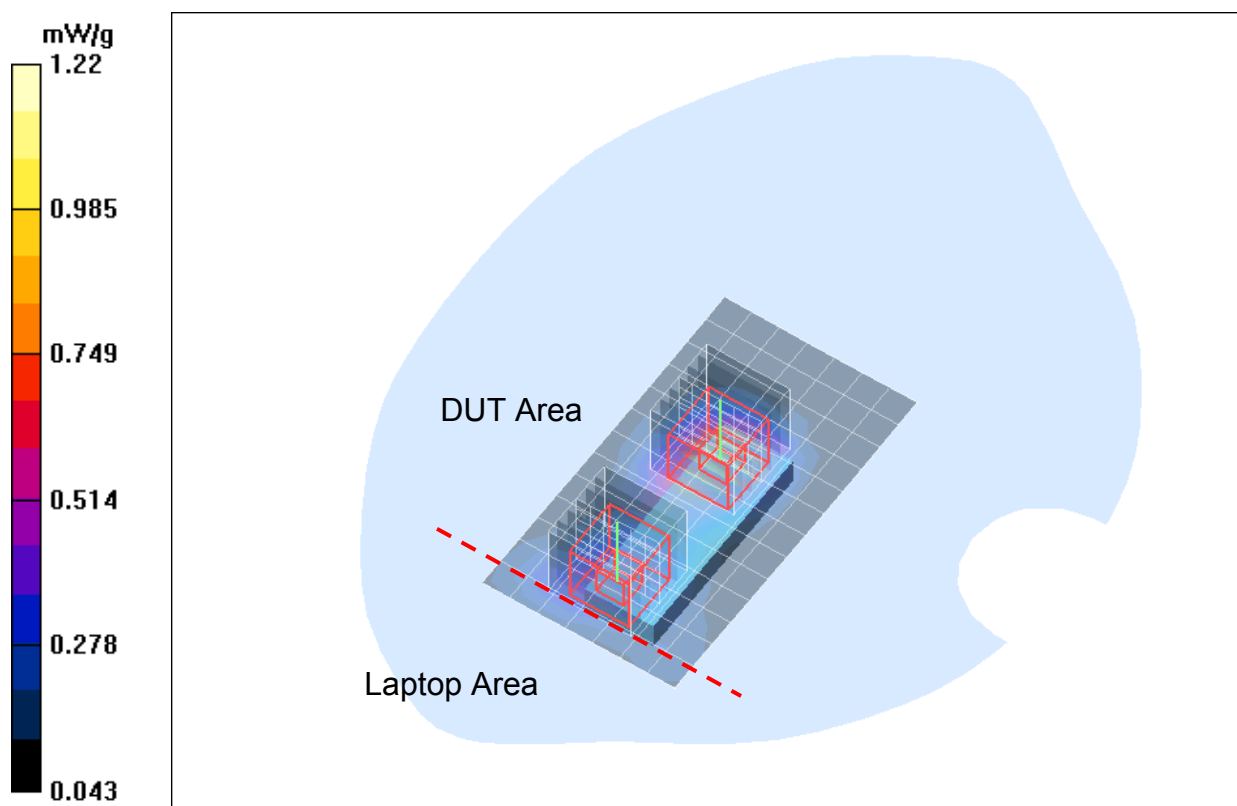


Fig. 11: SAR distribution for GPRS 1900 (Class 10), channel 512, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [179_bphm_1.da4](#)

DUT: Option ; **Type:** iCon 461; **Serial:** 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 1900/Area Scan (8x14x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.25 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.0 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.635 mW/g

Maximum value of SAR (measured) = 1.31 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.0 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.785 mW/g

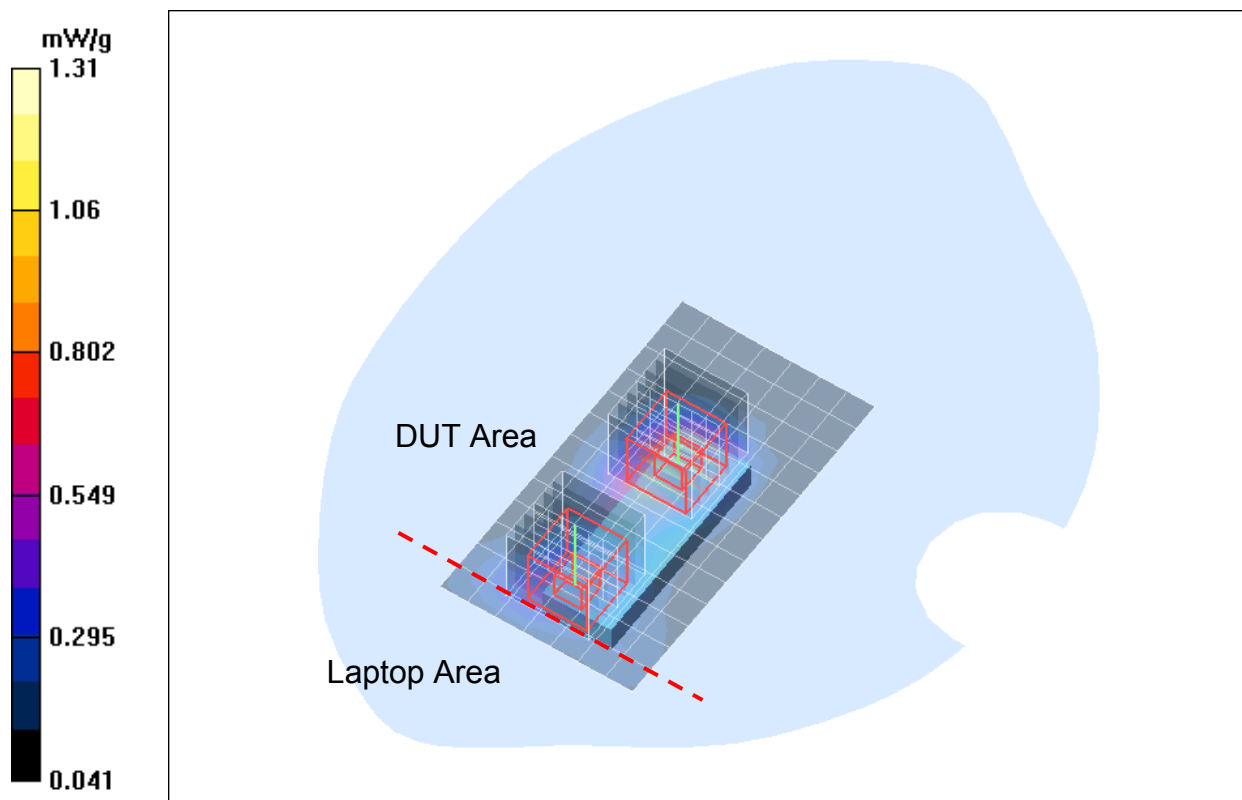


Fig. 12: SAR distribution for GPRS 1900 (Class 10), channel 661, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [179_bphh_1.da4](#)

DUT: Option ; **Type:** iCon 461; **Serial:** 004401441320179

Program Name: Body

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1909.8 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 1900/Area Scan (8x14x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.21 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.2 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.621 mW/g

Maximum value of SAR (measured) = 1.24 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.2 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 0.765 mW/g

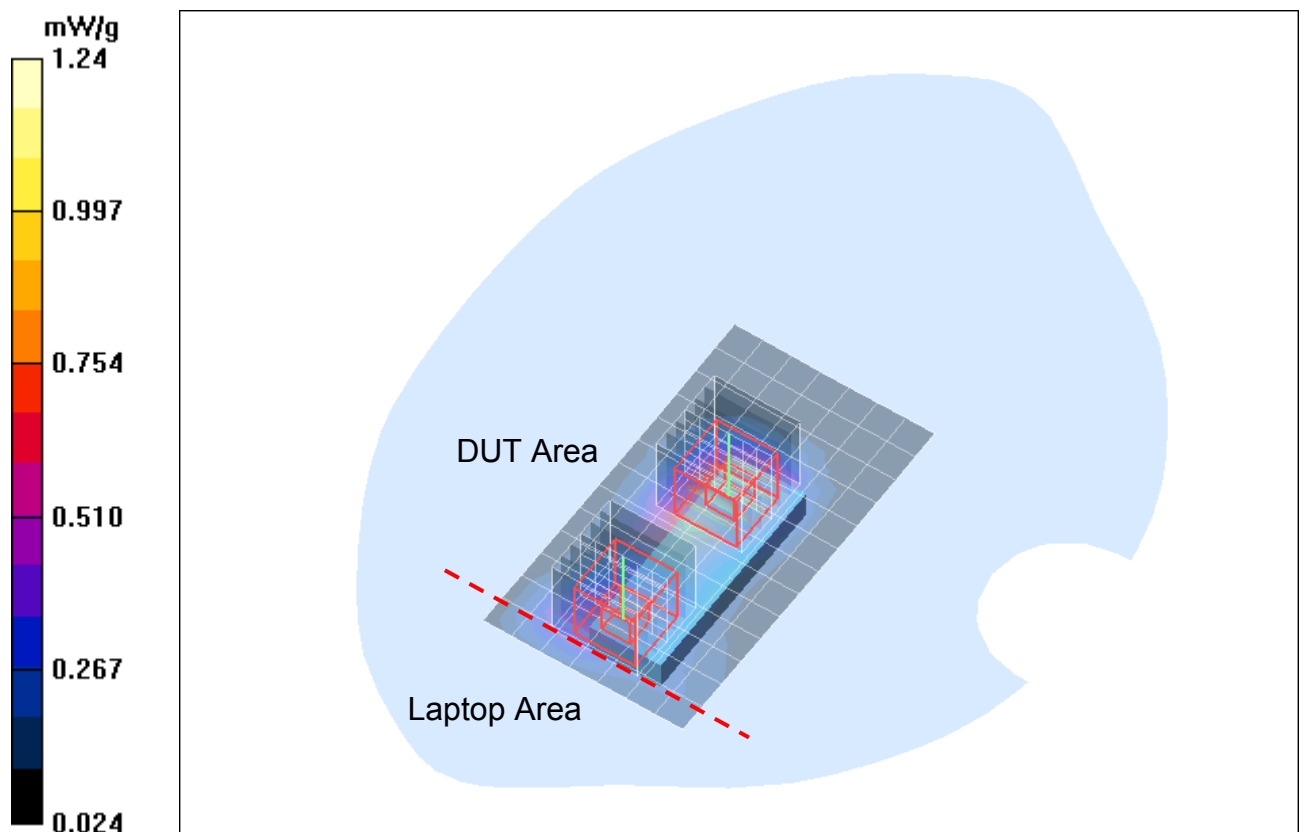


Fig. 13: SAR distribution for GPRS 1900 (Class 10), channel 810, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 2.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 1900/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.820 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.440 mW/g

Maximum value of SAR (measured) = 0.806 mW/g

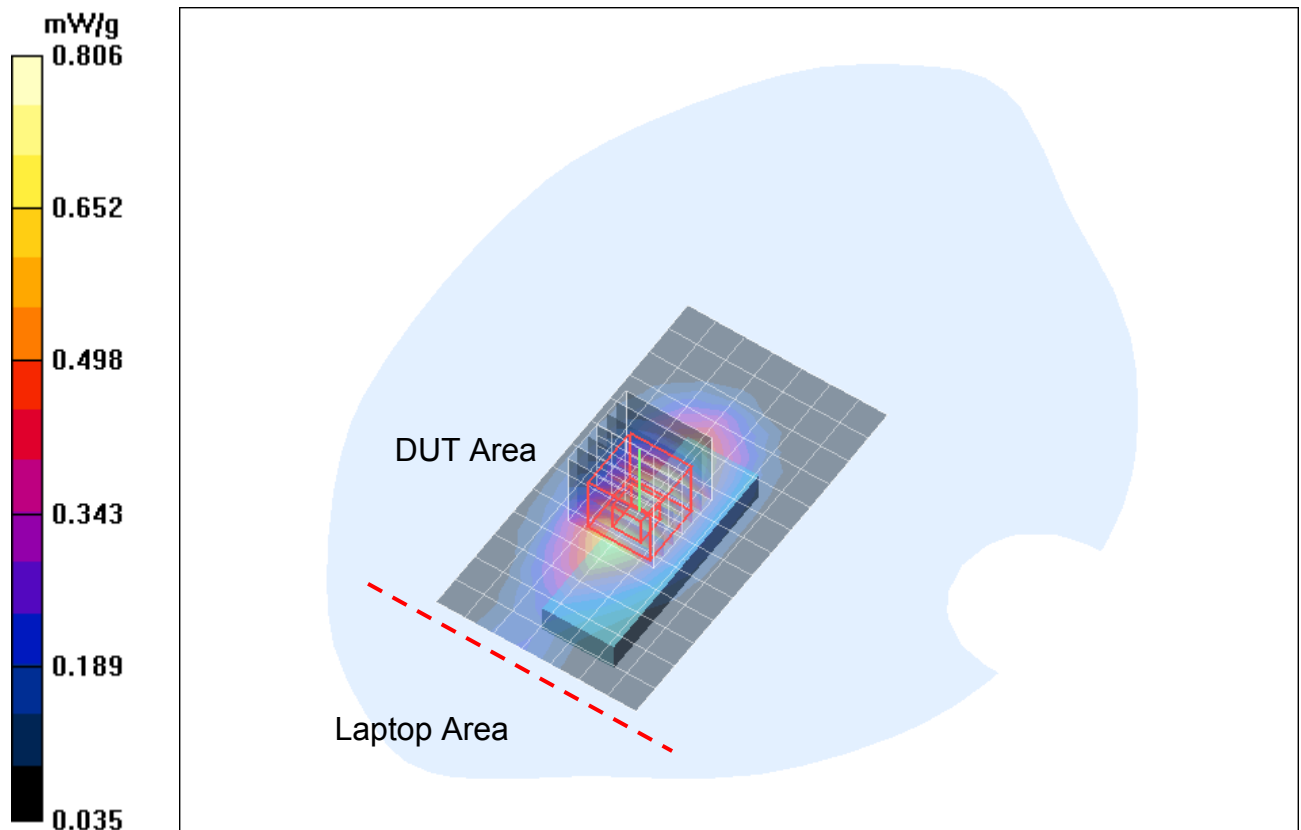


Fig. 14: Worst case SAR distribution for GPRS 1900 (Class 10), channel 661, Position B (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 3.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GRPS 1900/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.663 mW/g

GRPS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.361 mW/g

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

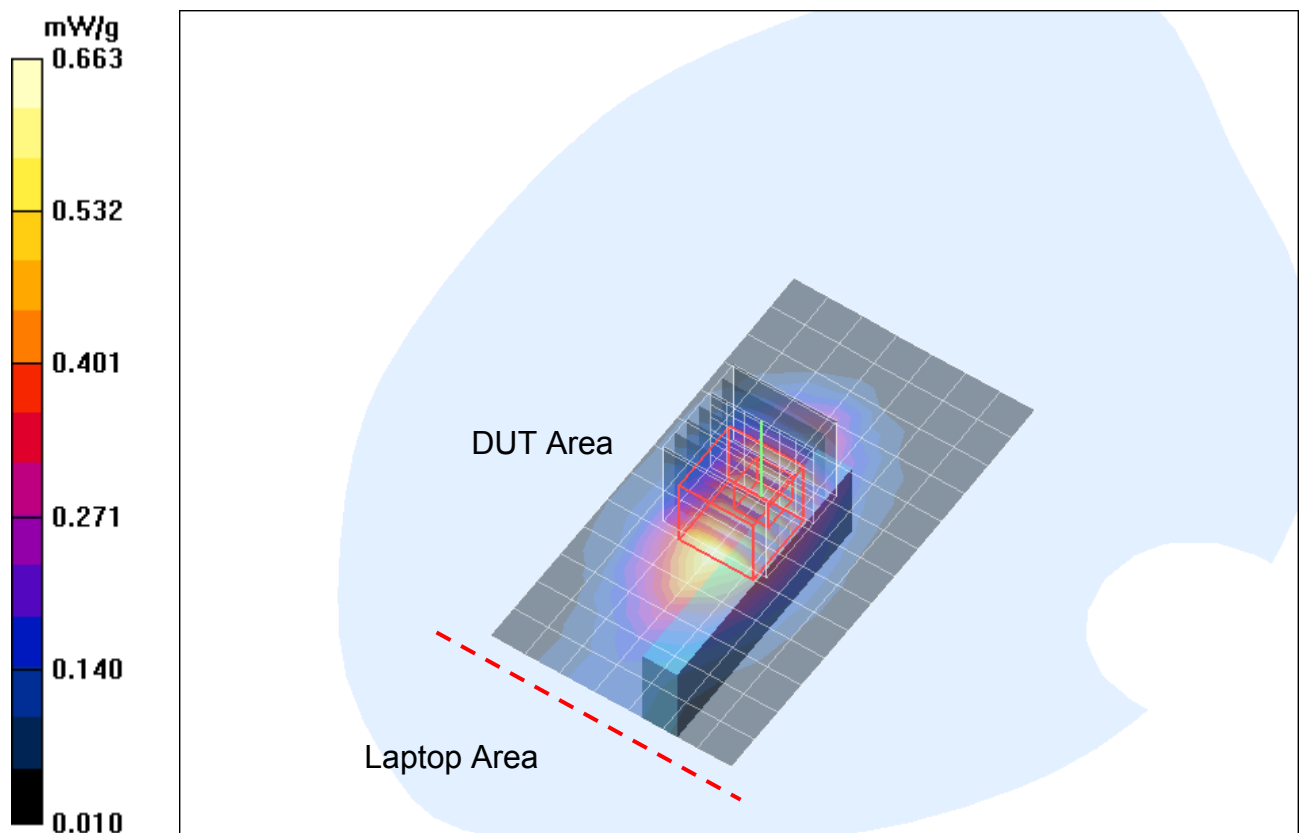


Fig. 15: SAR distribution for GPRS 1900 (Class 10), channel 661, Position C (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphl 4.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 1900/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.906 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.830 mW/g; SAR(10 g) = 0.454 mW/g

Maximum value of SAR (measured) = 0.921 mW/g

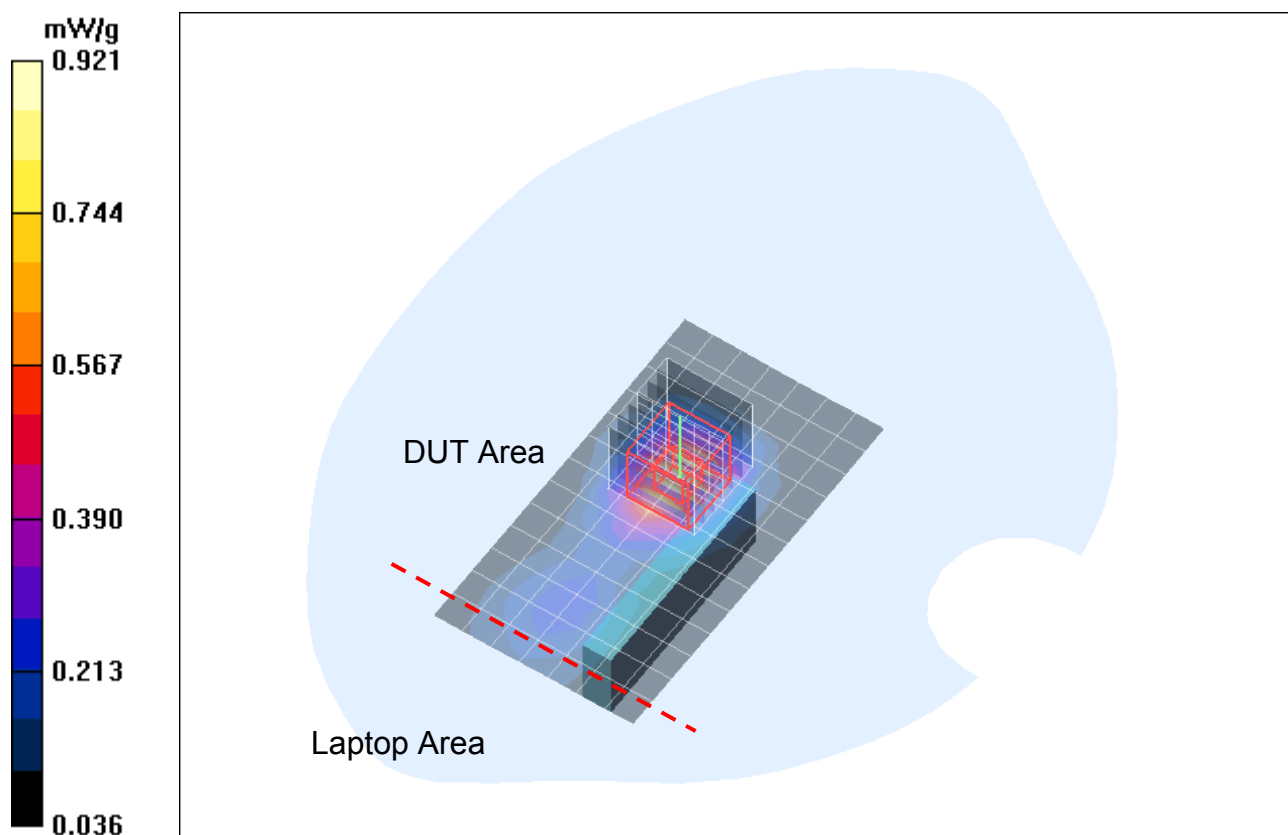


Fig. 16: SAR distribution for GPRS 1900 (Class 10), channel 512, Position D (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 4.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 1900/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.978 mW/g

GPRS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.895 mW/g; SAR(10 g) = 0.460 mW/g

Maximum value of SAR (measured) = 0.967 mW/g

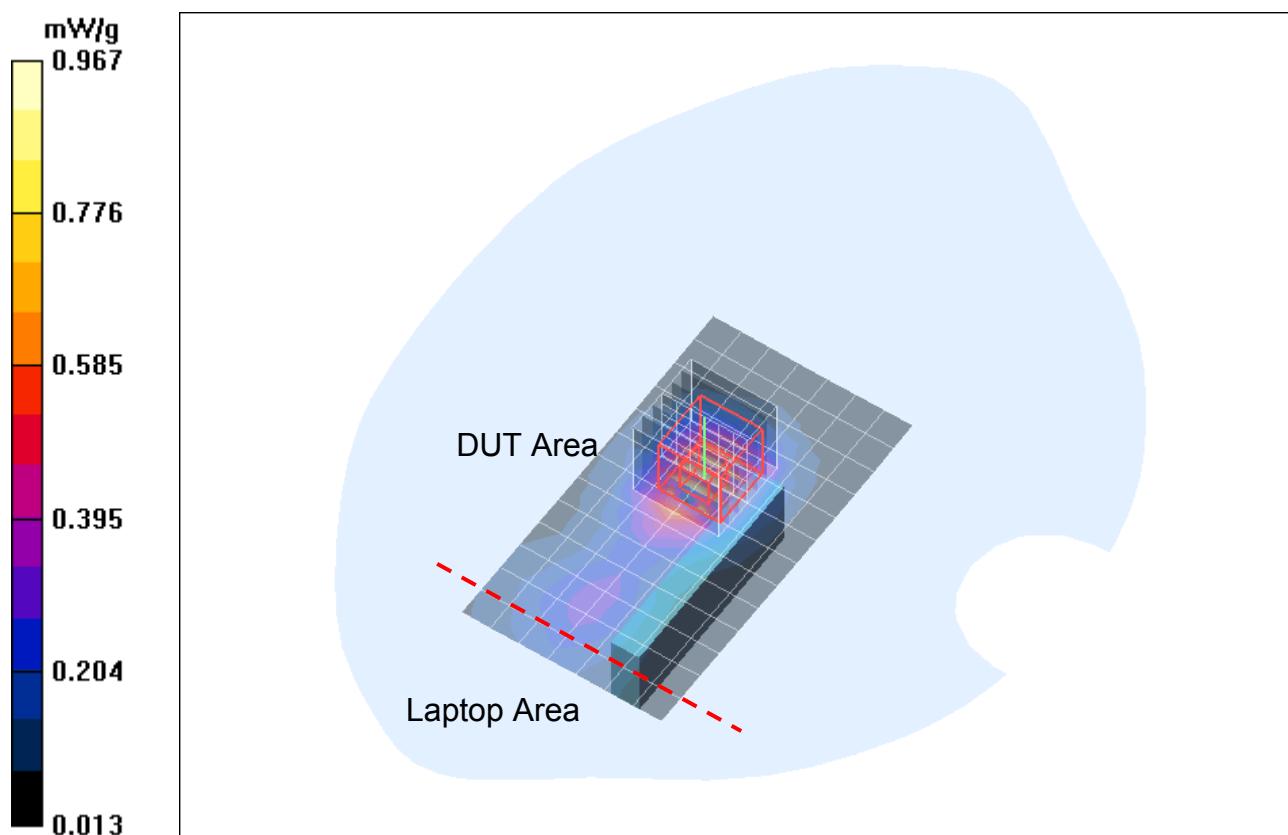


Fig. 17: SAR distribution for GPRS 1900 (Class 10), channel 661, Position D (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [179_bphh_4.da4](#)

DUT: Option ; **Type:** iCon 461; **Serial:** 004401441320179

Program Name: Body

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1909.8 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GRPS 1900/Area Scan (8x14x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.896 mW/g

GRPS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.9 V/m ; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.797 mW/g ; SAR(10 g) = 0.439 mW/g

Maximum value of SAR (measured) = 0.897 mW/g

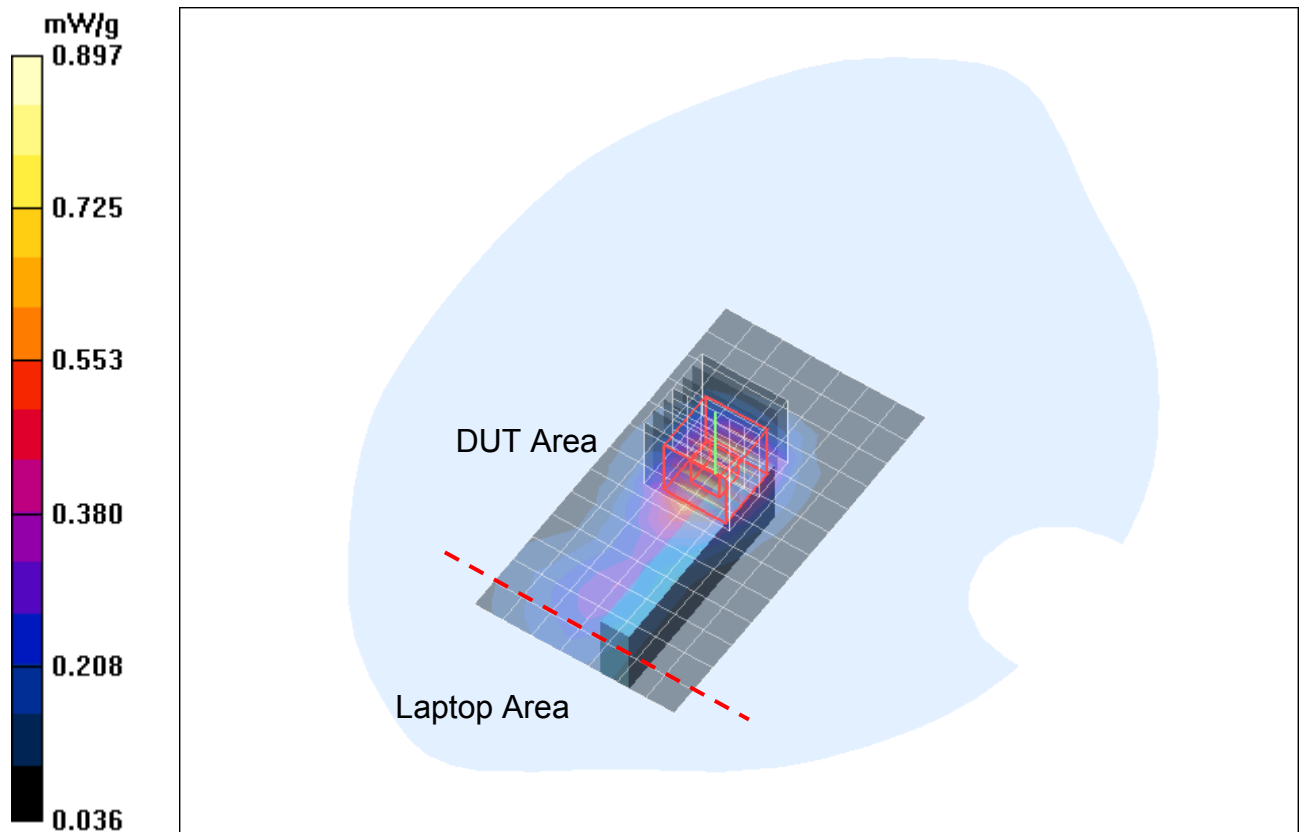


Fig. 18: SAR distribution for GPRS 1900 (Class 10), channel 810, Position D (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C ; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bphm_5.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GRPS 1900/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.100 mW/g

GRPS 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.71 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.108 mW/g

GRPS 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.71 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.097 mW/g

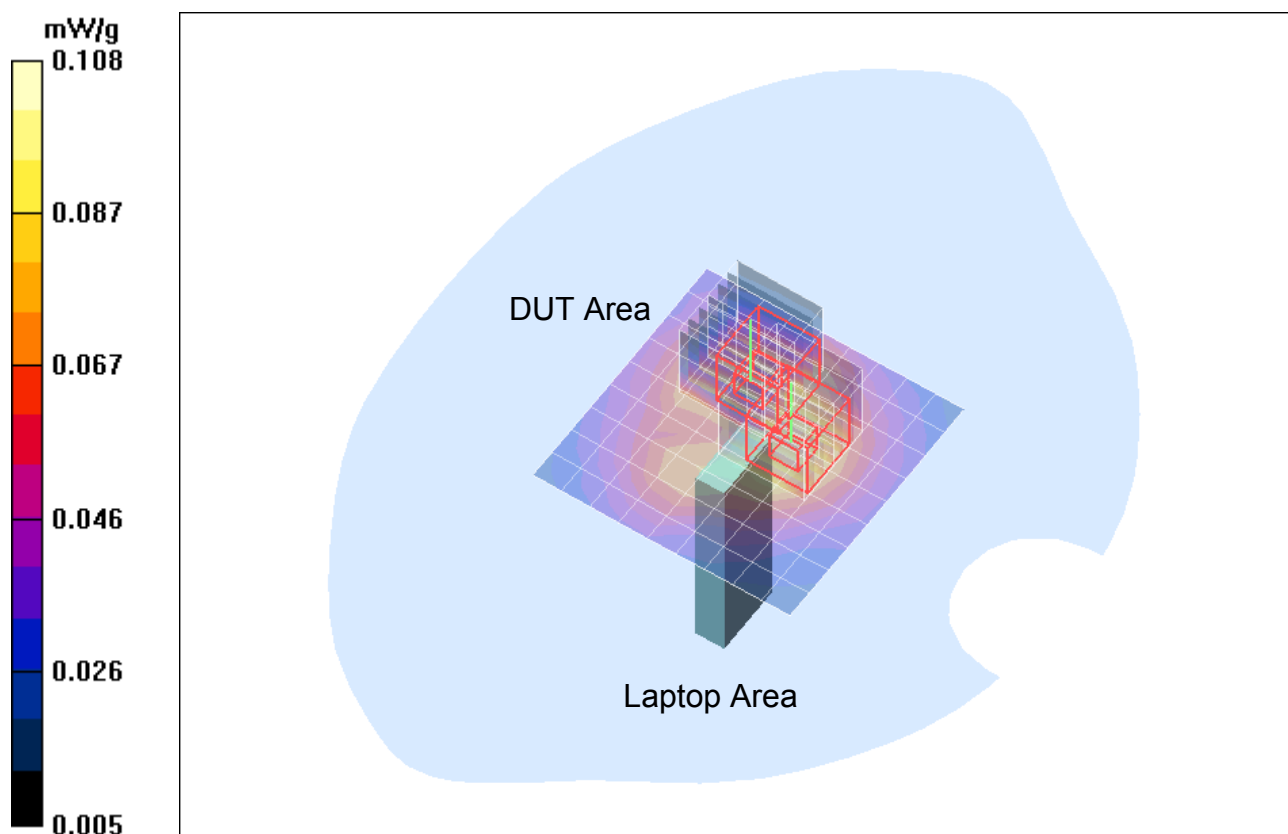


Fig. 19: SAR distribution for GPRS 1900 (Class 10), channel 661, Position E (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

4 SAR Distribution Plots, EDGE 1900 Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bphl_1_edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.33 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.8 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.729 mW/g

Maximum value of SAR (measured) = 1.38 mW/g

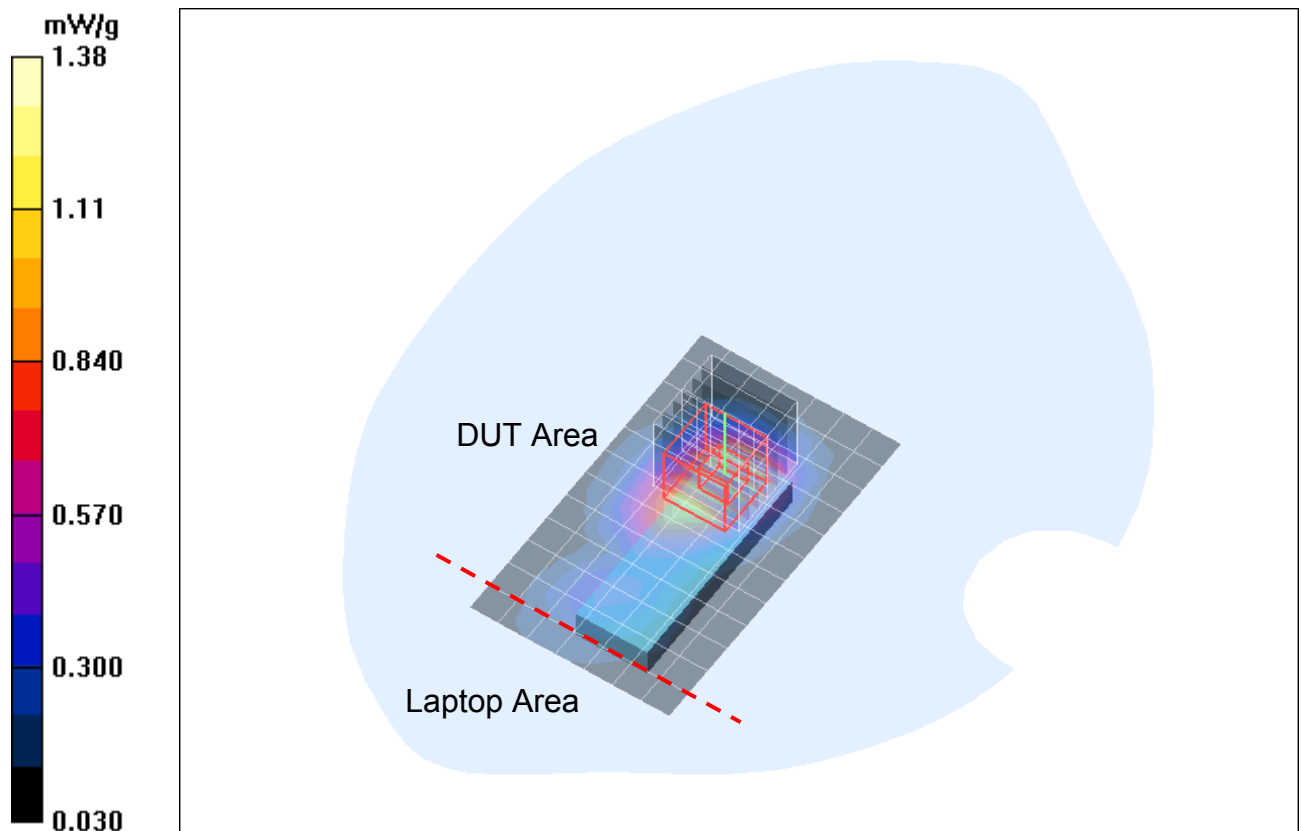


Fig. 20: SAR distribution for EDGE 1900 (Class 10), channel 512, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 1 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.25 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.704 mW/g

Maximum value of SAR (measured) = 1.32 mW/g

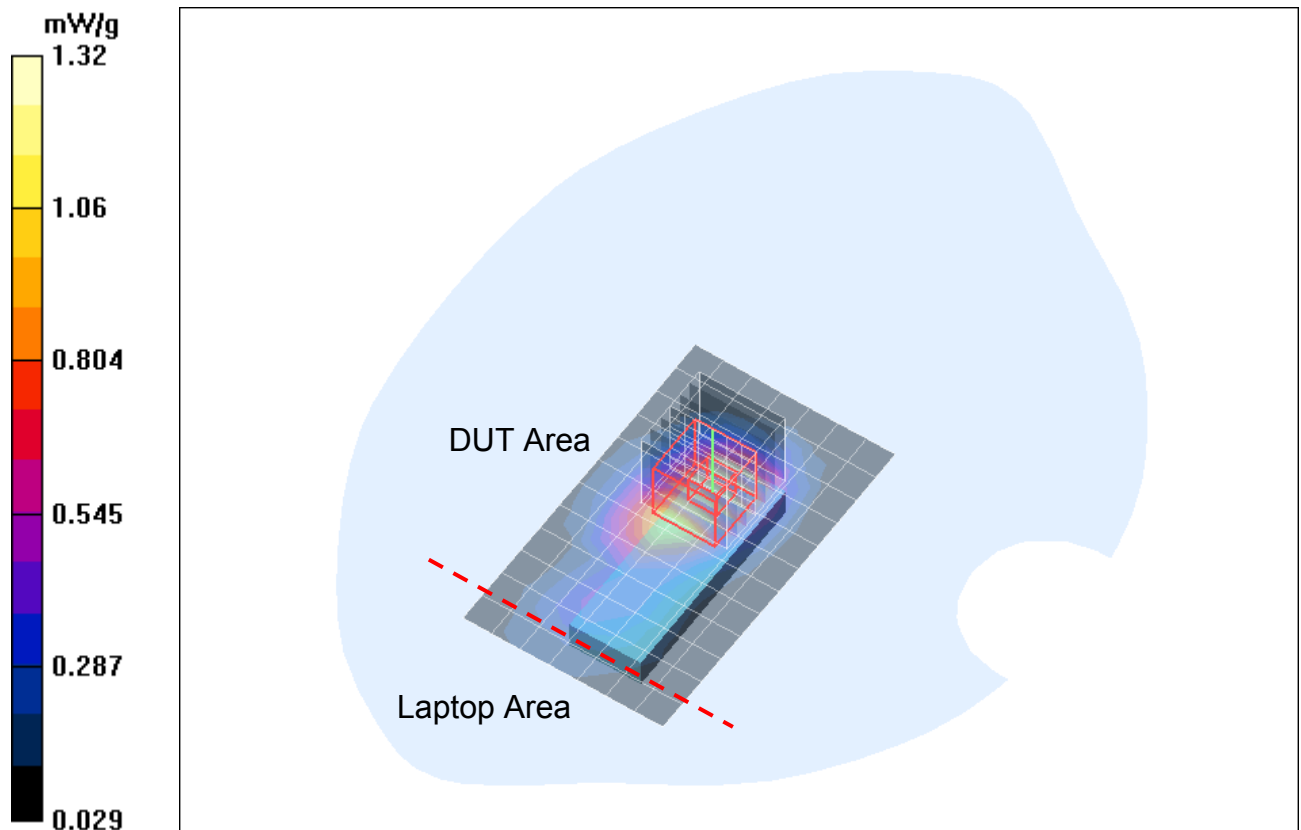


Fig. 21: SAR distribution for EDGE 1900 (Class 10), channel 661, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphh 1 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1909.8 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.14 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.3 V/m ; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 1.03 mW/g ; SAR(10 g) = 0.617 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.3 V/m ; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 1 mW/g ; SAR(10 g) = 0.602 mW/g

Maximum value of SAR (measured) = 1.10 mW/g

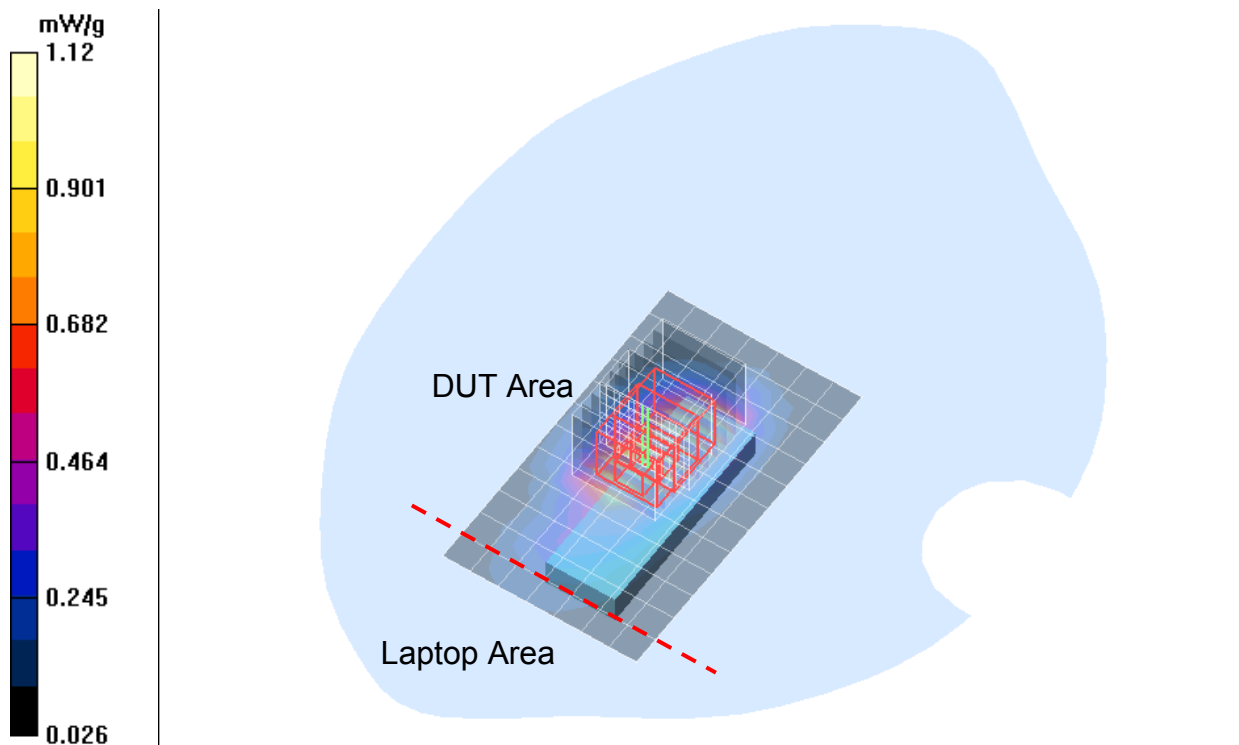


Fig. 22: SAR distribution for EDGE 1900 (Class 10), channel 810, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C ; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 2 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.772 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.418 mW/g

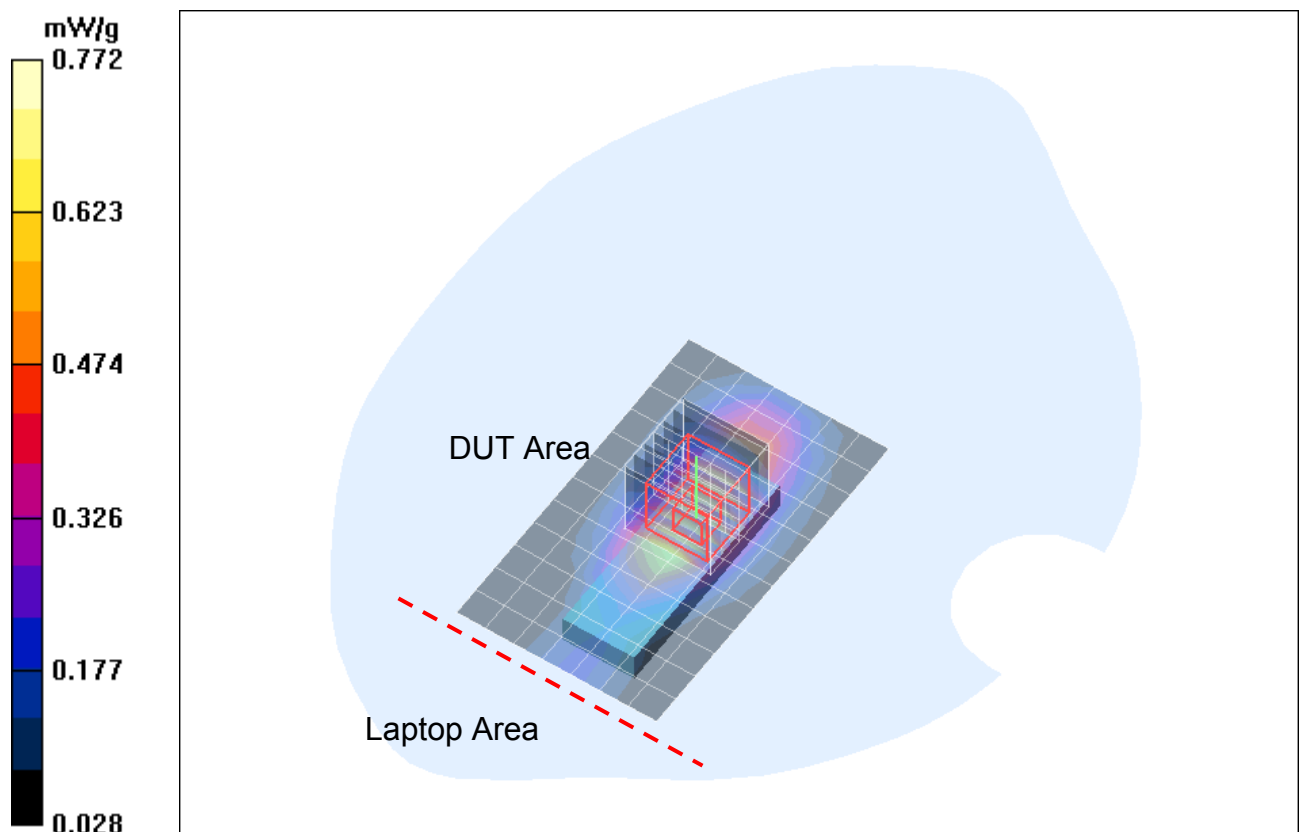


Fig. 23: SAR distribution for EDGE 1900 (Class 10), channel 661, Position B (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 3 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.587 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.914 W/kg

SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.317 mW/g

Maximum value of SAR (measured) = 0.614 mW/g

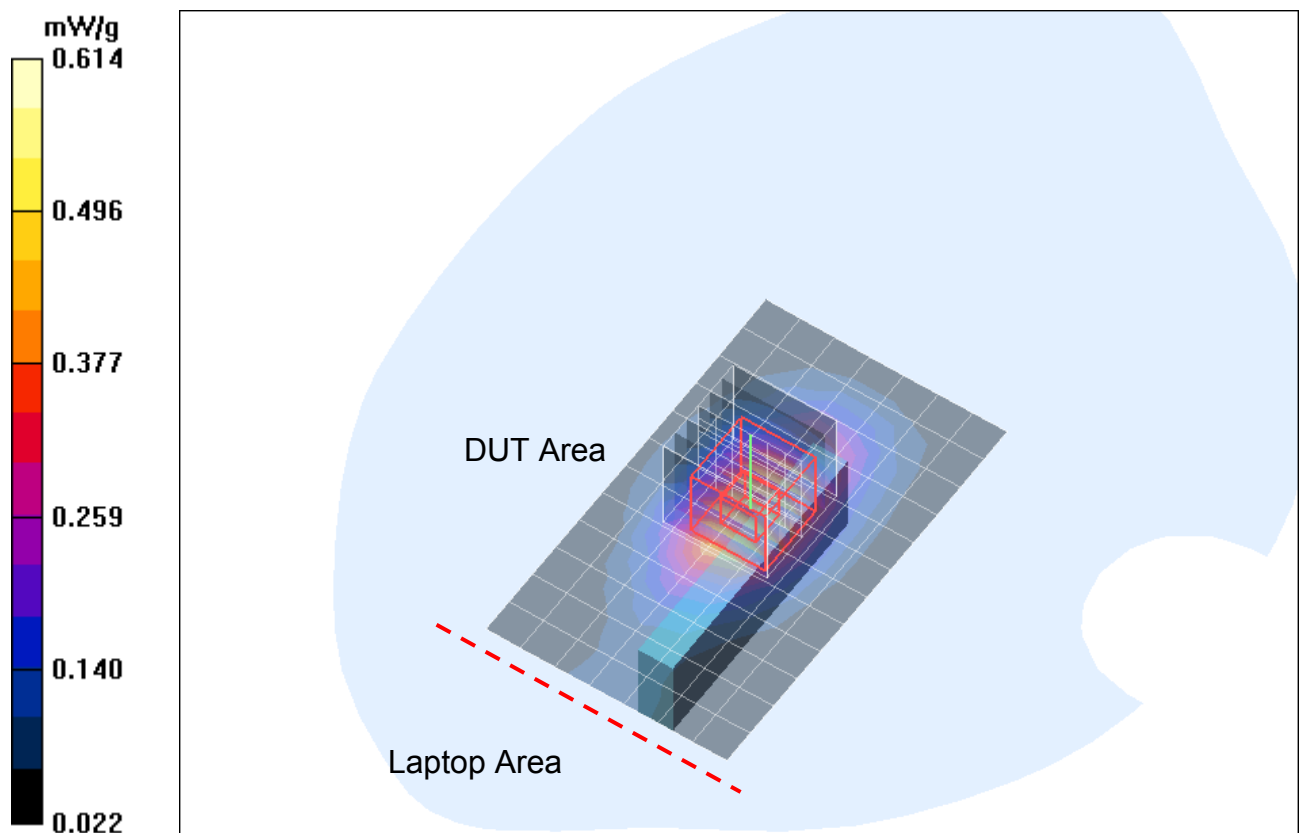


Fig. 24: SAR distribution for EDGE 1900 (Class 10), channel 661, Position C (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphl 4 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.914 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.423 mW/g

Maximum value of SAR (measured) = 0.874 mW/g

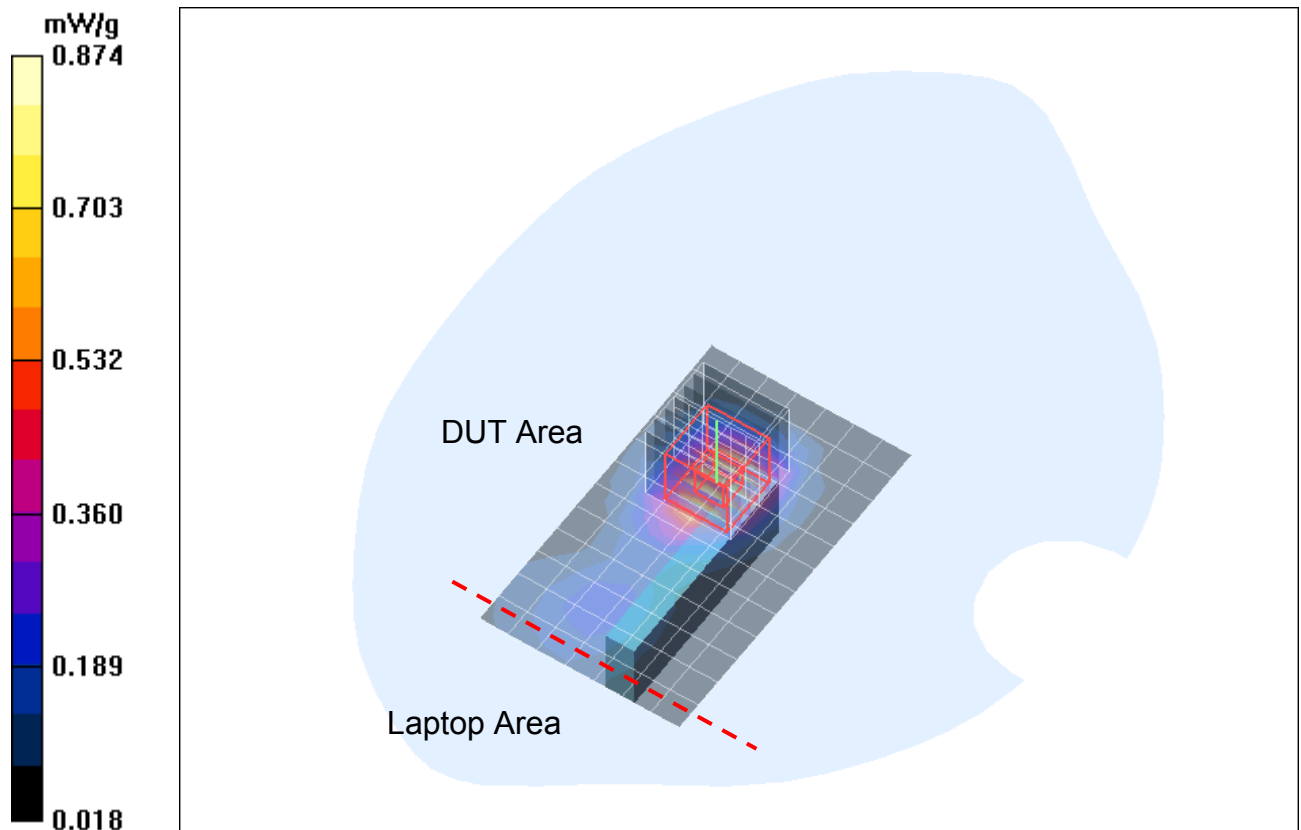


Fig. 25: SAR distribution for EDGE 1900 (Class 10), channel 512, Position D (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 4 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.931 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.850 mW/g; SAR(10 g) = 0.457 mW/g

Maximum value of SAR (measured) = 0.952 mW/g

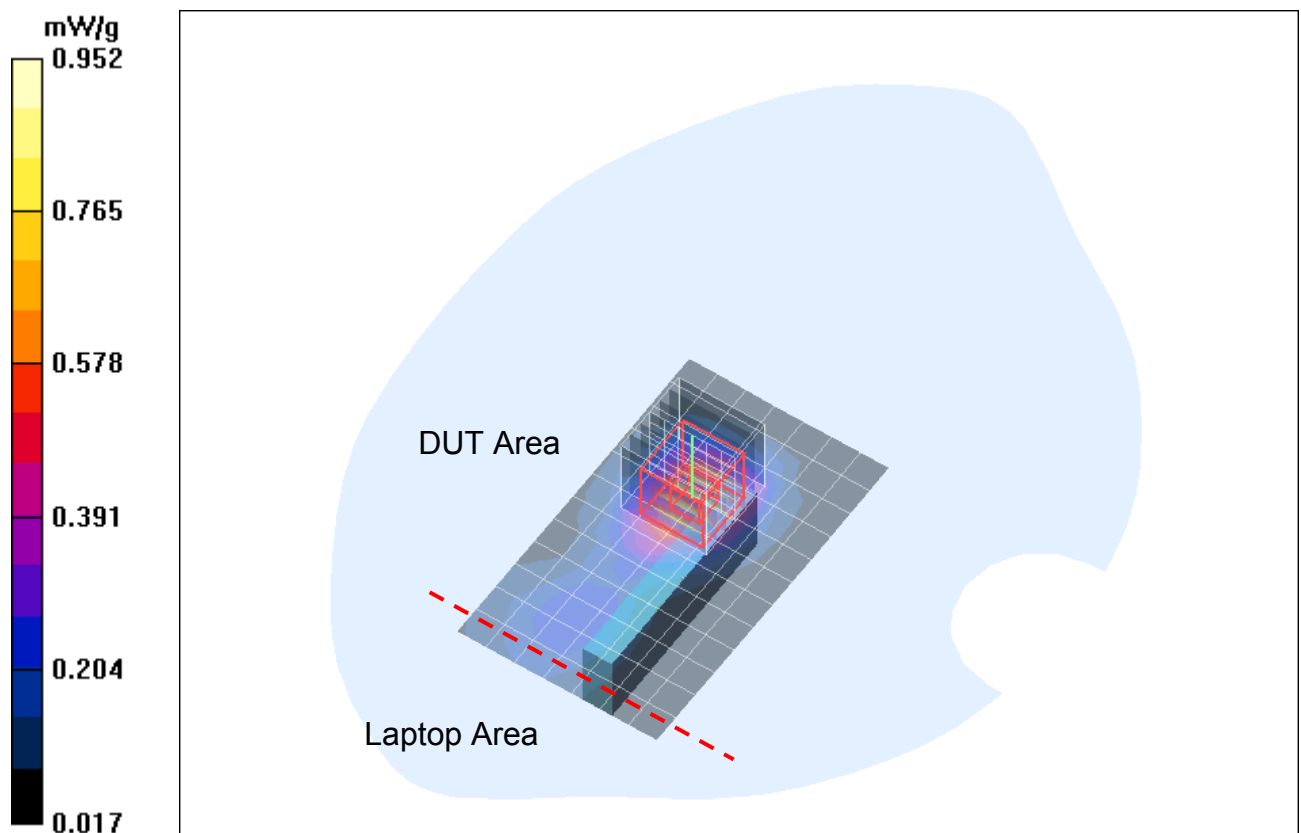


Fig. 26: SAR distribution for EDGE 1900 (Class 10), channel 661, Position D (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphh 4 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used (extrapolated): $f = 1909.8$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.863 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.5 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.428 mW/g

Maximum value of SAR (measured) = 0.878 mW/g

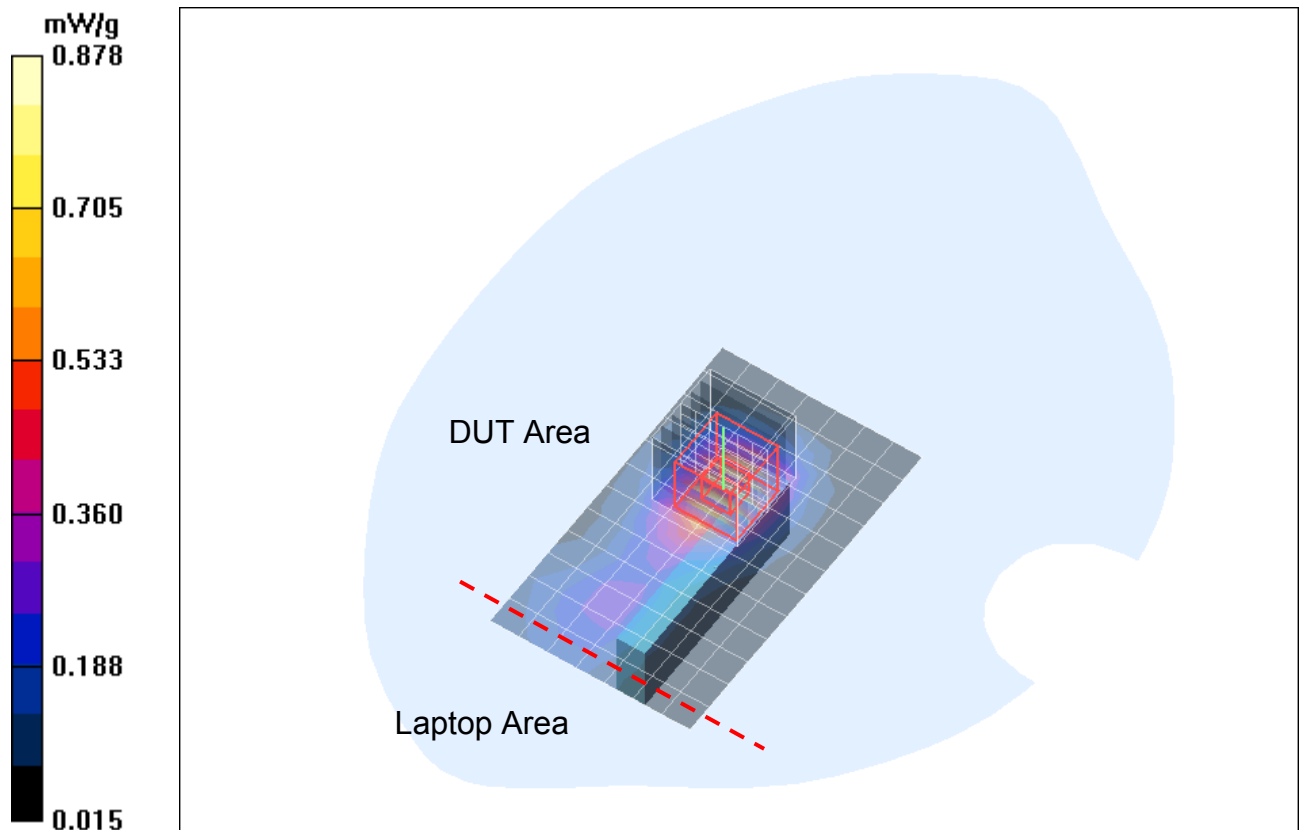


Fig. 27: SAR distribution for EDGE 1900 (Class 10), channel 810, Position D (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bphm 5 edge.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

EDGE 1900/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.097 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.98 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.179 W/kg

SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.100 mW/g

EDGE 1900/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.98 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.056 mW/g

Maximum value of SAR (measured) = 0.096 mW/g

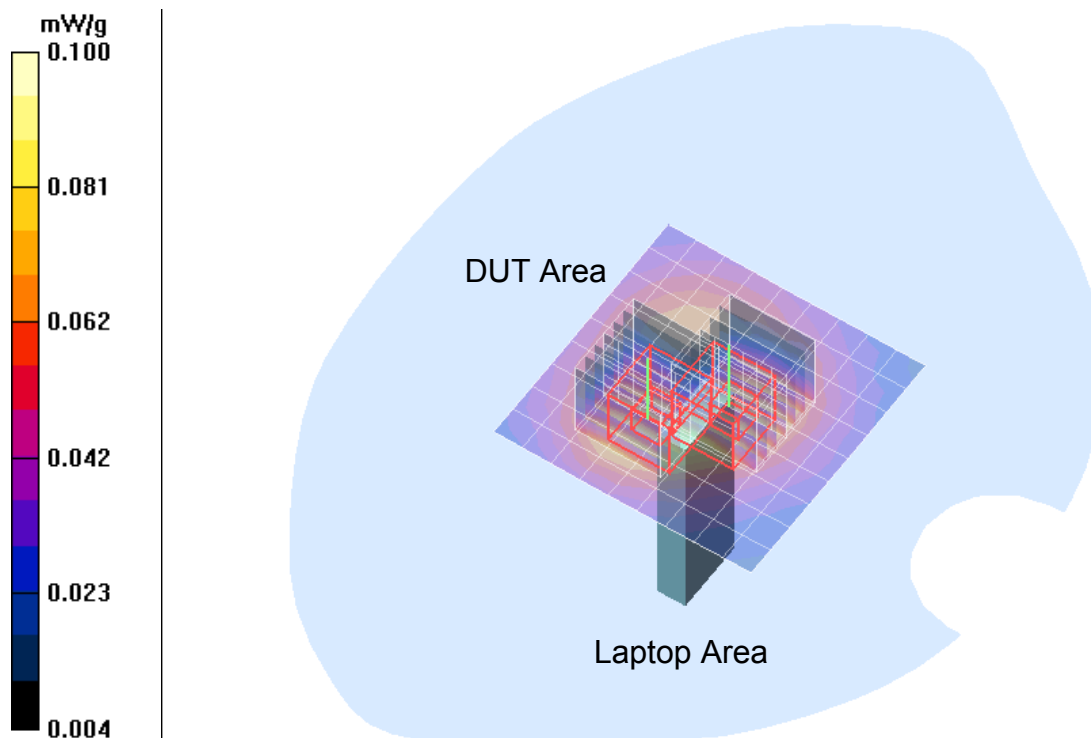


Fig. 28: SAR distribution for EDGE 1900 (Class 10), channel 661, Position E (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

5 AR Distribution Plots, WCDMA FCC V Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 buVhm 1.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

FDD V/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.616 mW/g

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

Reference Value = 14.7 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.905 W/kg

SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.338 mW/g

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

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

Reference Value = 14.7 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.640 W/kg

SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.380 mW/g

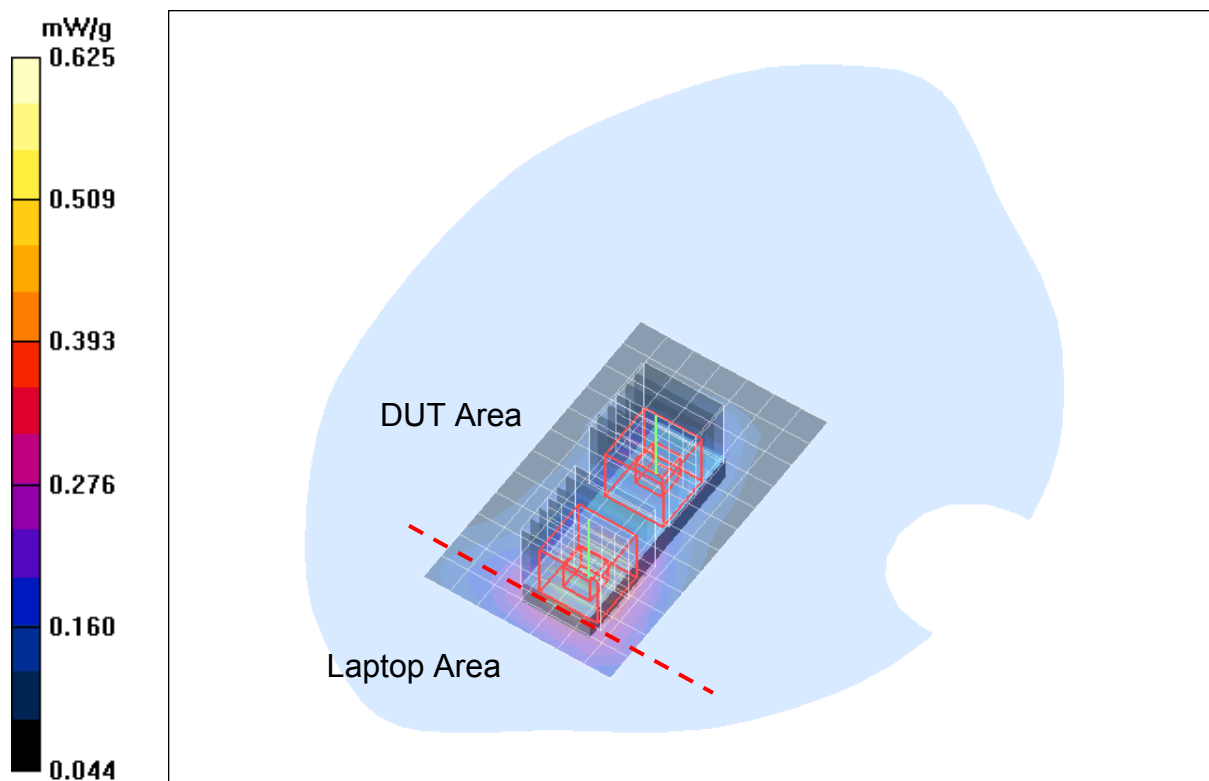


Fig. 29: Worst case SAR distribution for WCDMA V, channel 4183, Position A (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [179_buVhm_2.da4](#)

DUT: Option ; **Type:** iCon 461; **Serial:** 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

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

FDD VI/Area Scan (8x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.339 mW/g

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

Reference Value = 14.5 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.340 mW/g

FDD VI/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.5 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.347 mW/g

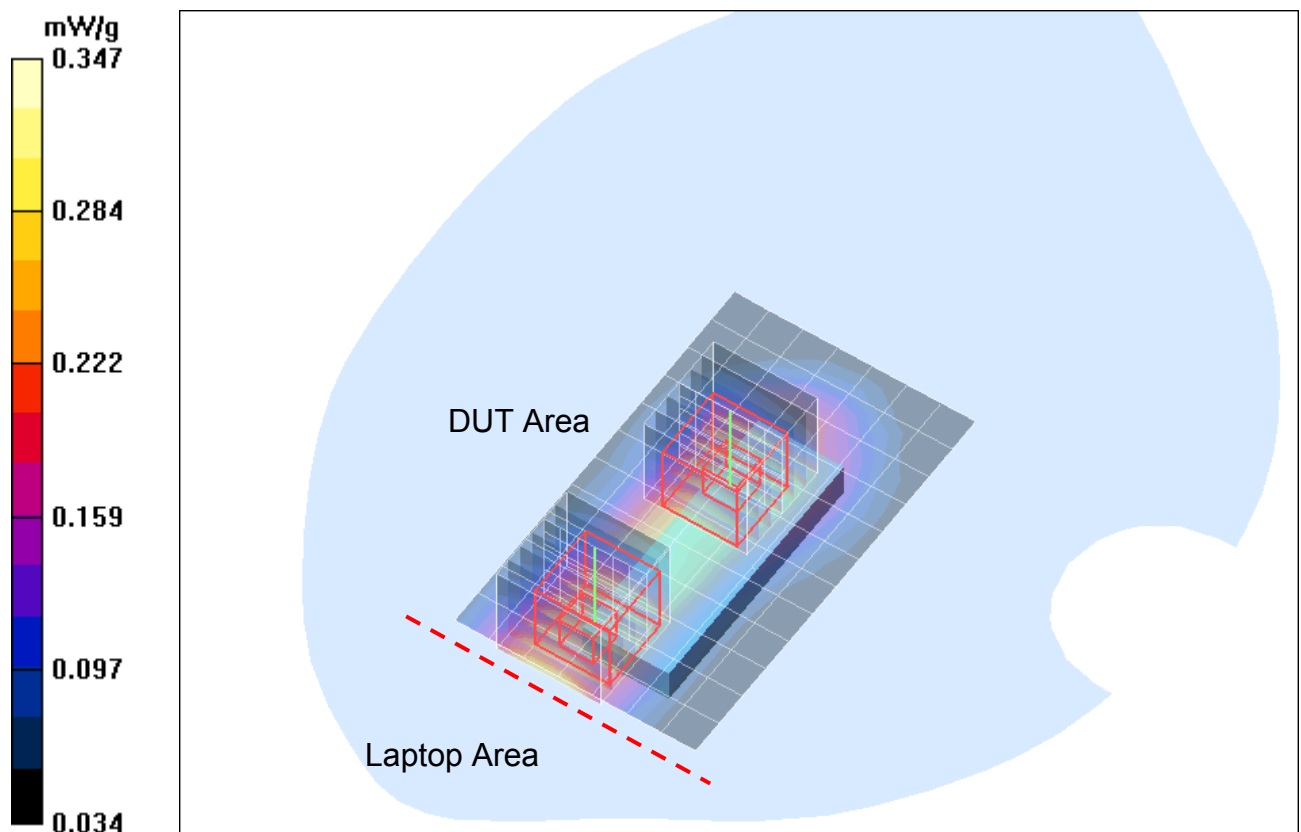


Fig. 30: SAR distribution for WCDMA V, channel 4183, Position B (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 buVhm 3.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

FDD V/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 13.8 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.172 mW/g

Maximum value of SAR (measured) = 0.337 mW/g

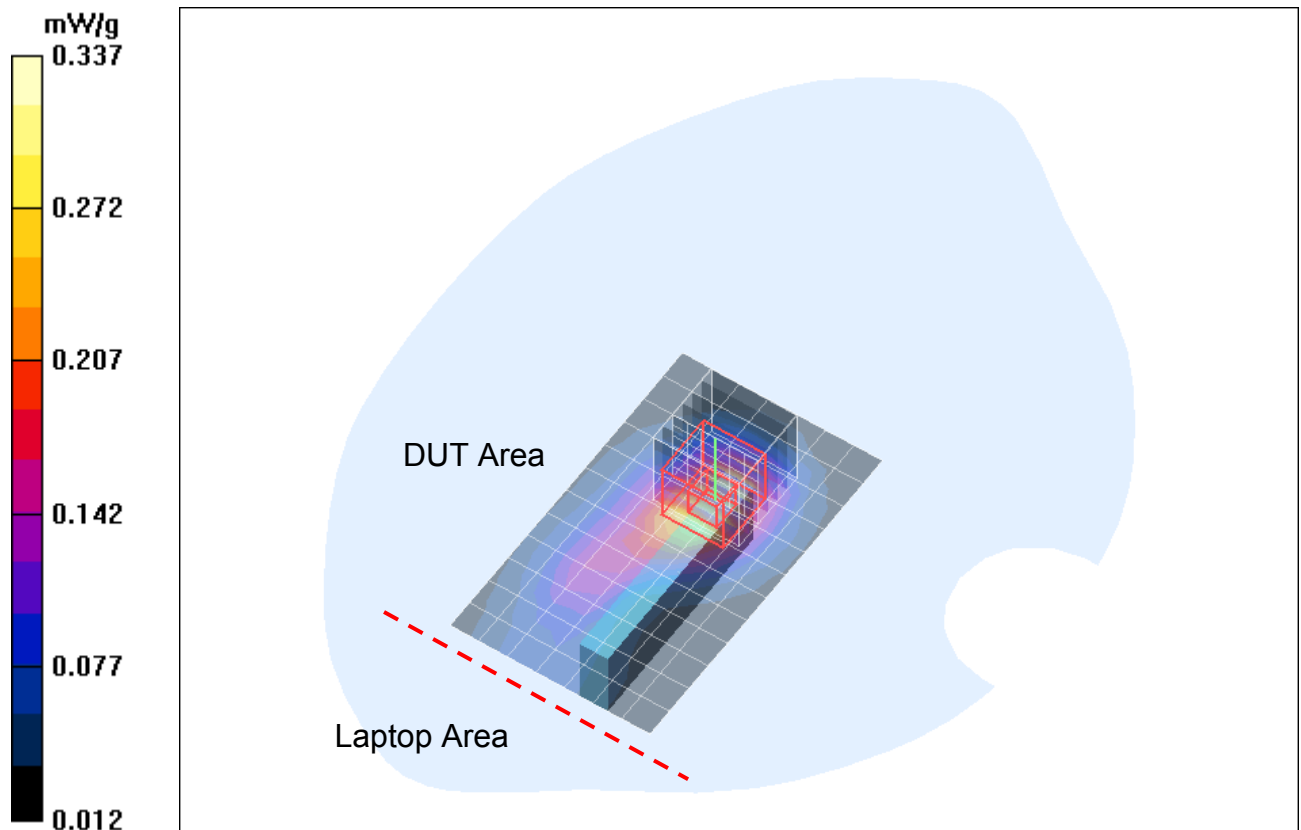


Fig. 31: SAR distribution for WCDMA V, channel 4183, Position C (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 buVhm 4.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

FDD V/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.659 mW/g

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

Reference Value = 9.86 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.648 mW/g; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 0.702 mW/g

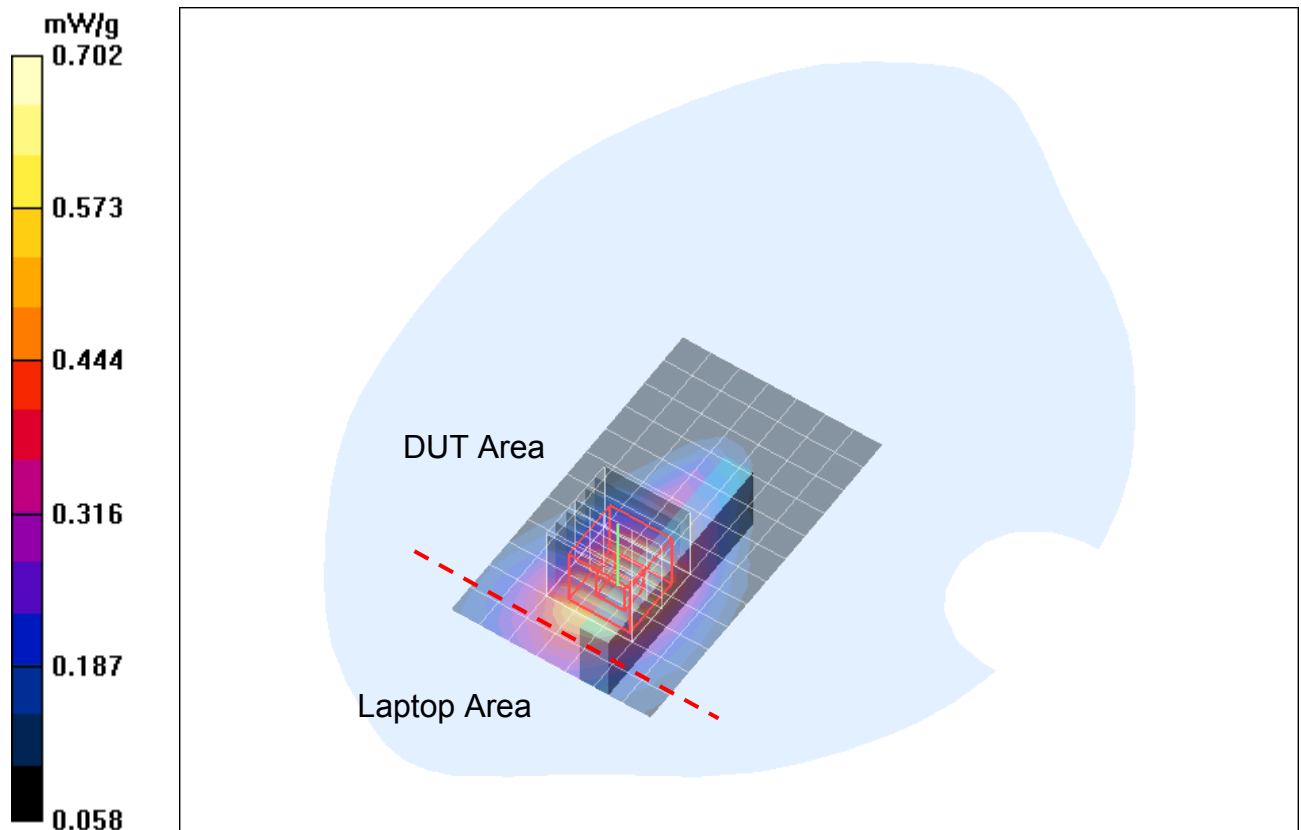


Fig. 32: SAR distribution for WCDMA V, channel 4183, Position D (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 buVhm 5.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

FDD V/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.083 mW/g

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

Reference Value = 9.49 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.101 mW/g

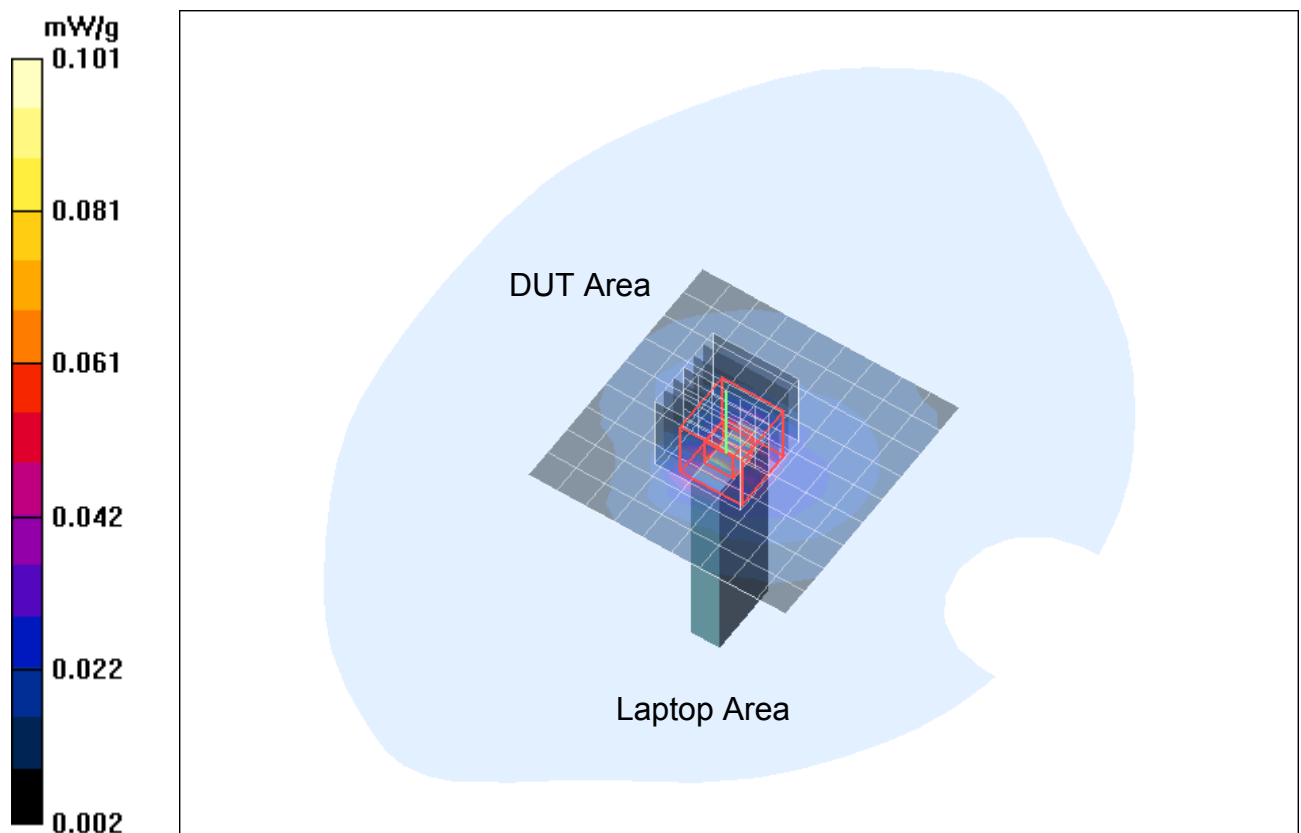


Fig. 33: SAR distribution for WCDMA V, channel 4183, Position E (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 buVhm 4 HSDPA.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

FDD VI/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.718 mW/g

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

Reference Value = 9.43 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.444 mW/g

Maximum value of SAR (measured) = 0.763 mW/g

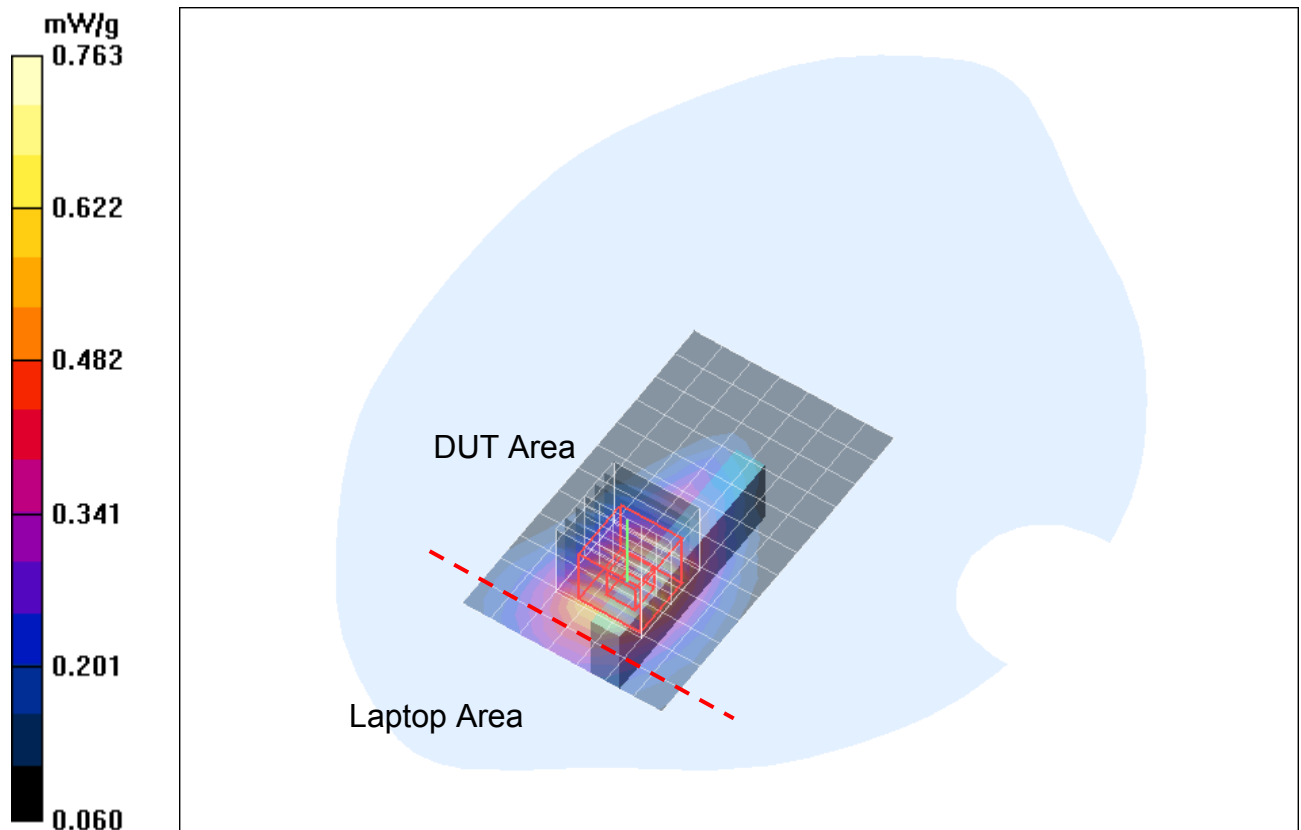


Fig. 34: SAR distribution for WCDMA V with HSDPA, channel 4183, Position D (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 buVhm 4 HSUPA.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA (FDD) Band V; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

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

FDD V/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.608 mW/g

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

Reference Value = 8.40 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 0.890 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (measured) = 0.650 mW/g

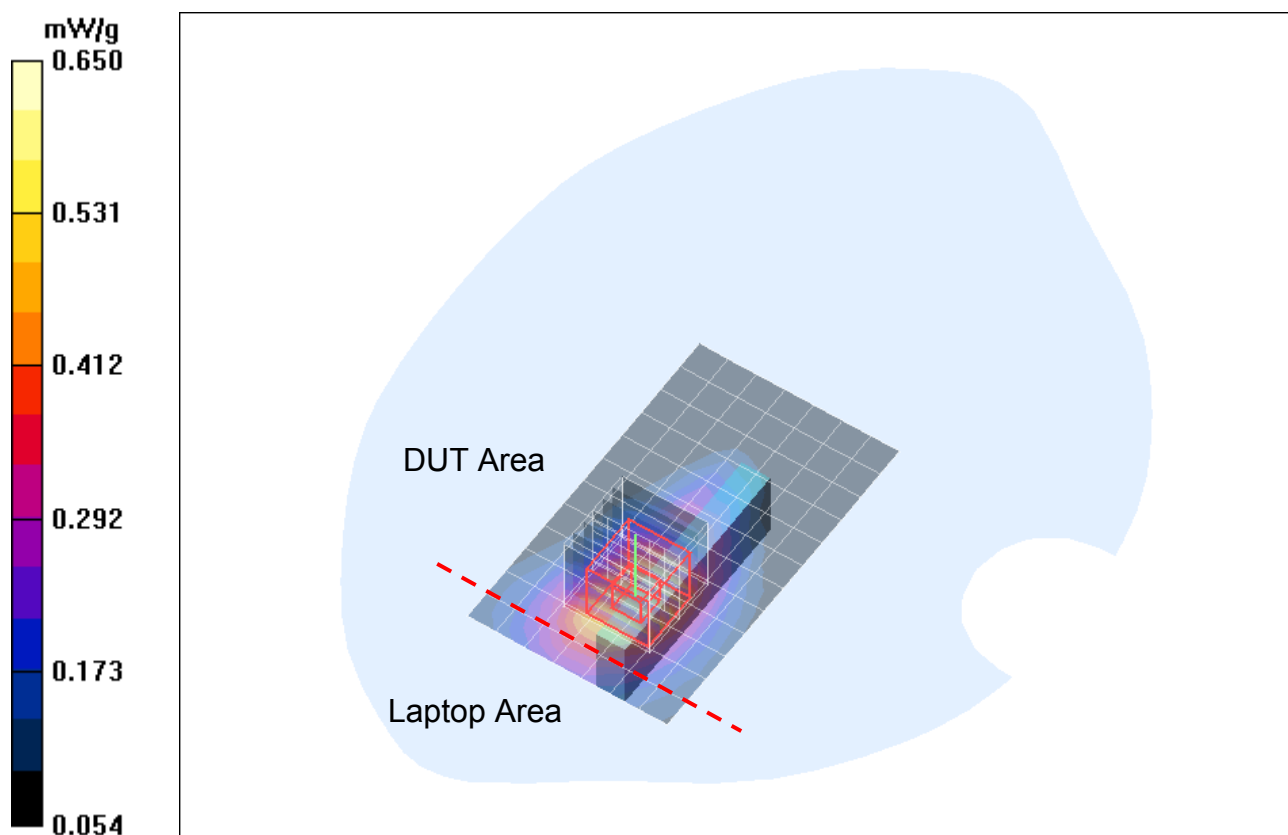


Fig. 35: SAR distribution for WCDMA V with HSUPA, channel 4183, Position D (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

6 SAR Distribution Plots, WCDMA FDD II Body

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhl 1.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.43 mW/g

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

Reference Value = 18.0 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.695 mW/g

Maximum value of SAR (measured) = 1.39 mW/g

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

Reference Value = 18.0 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.793 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

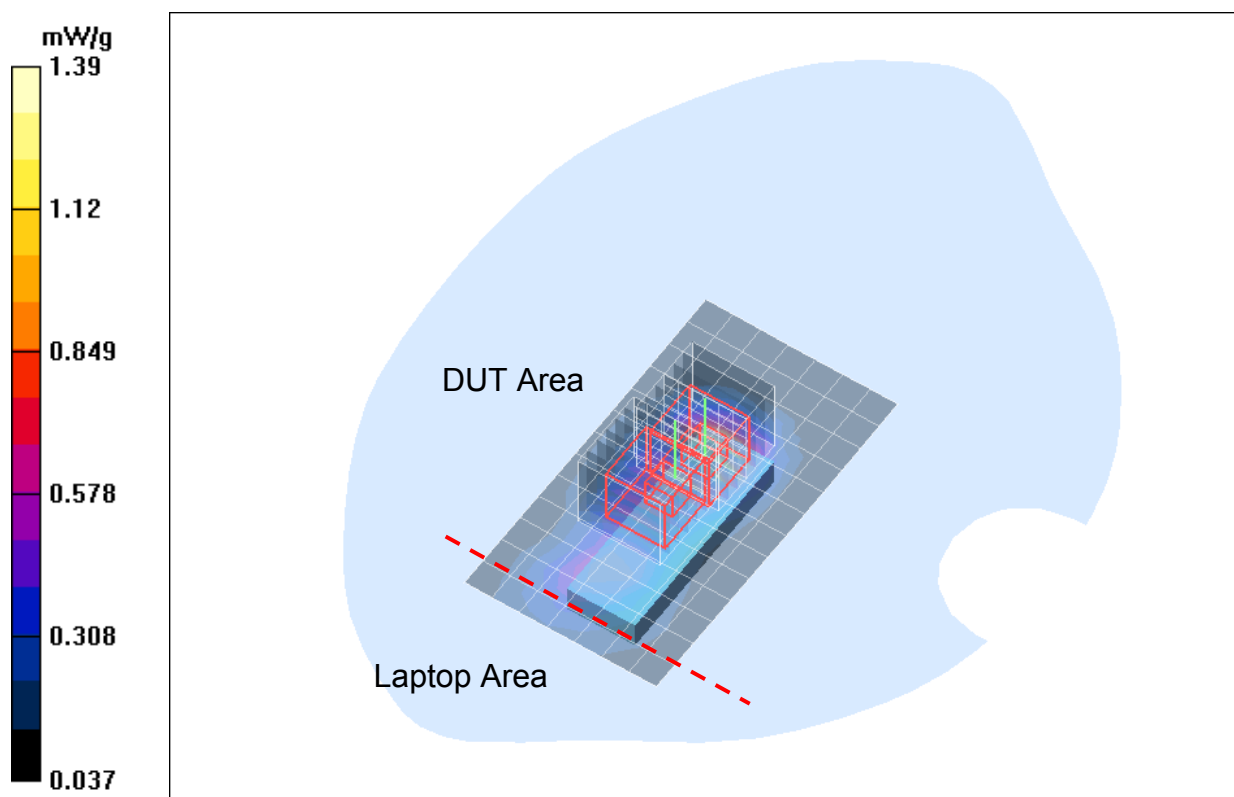


Fig. 36: SAR distribution for WCDMA II, channel 9262, Position A (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [179_bullhm_1.da4](#)

DUT: Option ; **Type:** iCon 461; **Serial:** 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.26 mW/g

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

Reference Value = 18.0 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 1.27 mW/g

FDD II/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 18.0 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.394 mW/g

Maximum value of SAR (measured) = 0.887 mW/g

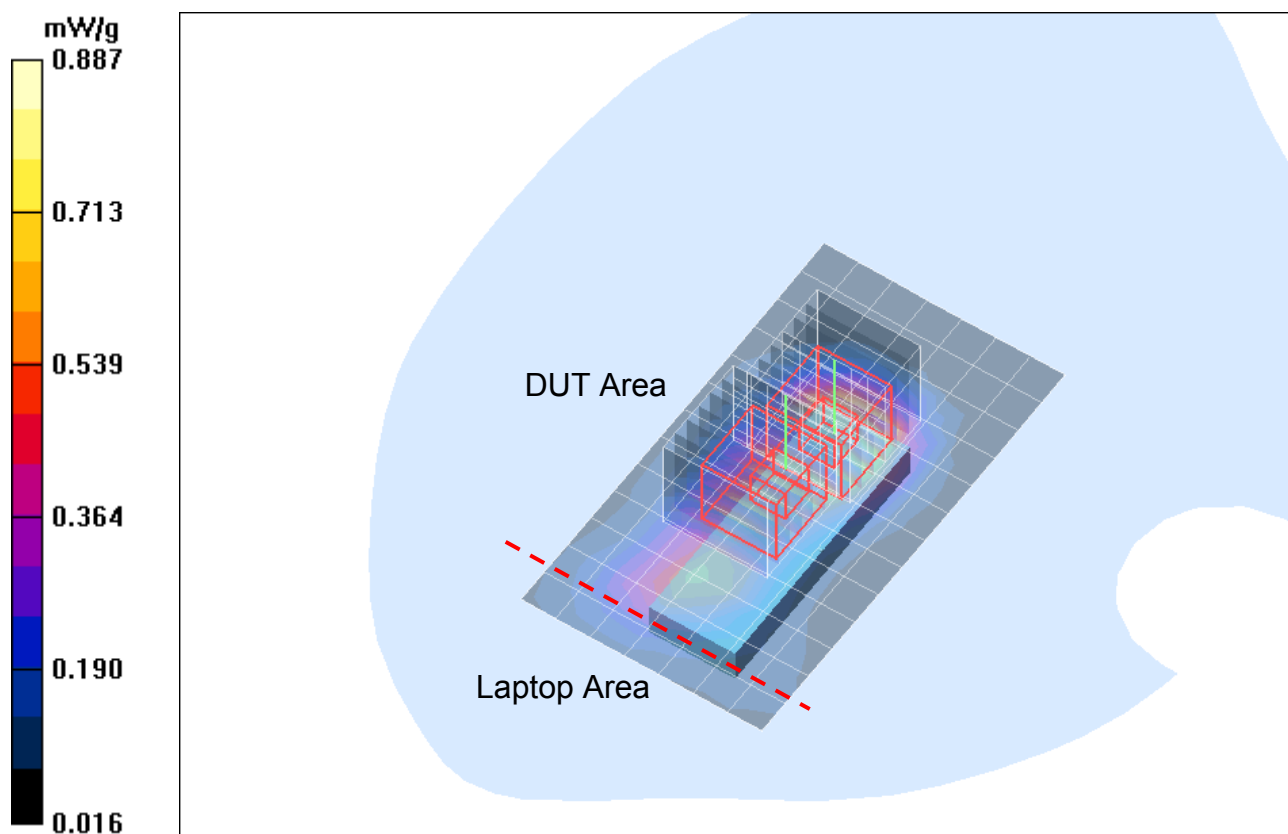


Fig. 37: SAR distribution for WCDMA II, channel 9400, Position A (Fujitsu Siemens Amilo Pro, May 19, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhh 1.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.24 mW/g

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

Reference Value = 17.7 V/m; Power Drift = -0.137 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.622 mW/g

Maximum value of SAR (measured) = 1.30 mW/g

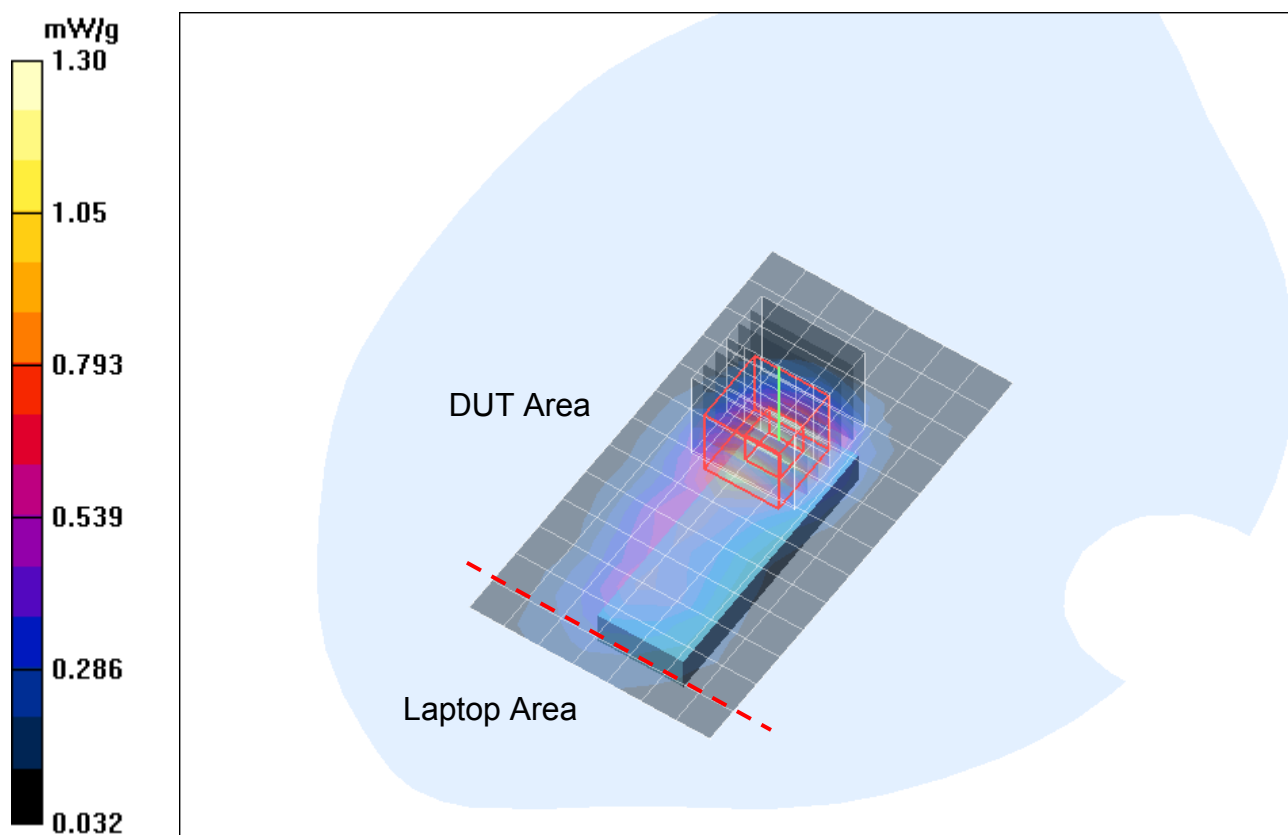


Fig. 38: SAR distribution for WCDMA II, channel 9538, Position A (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhl 2.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.02 mW/g

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

Reference Value = 26.4 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.922 mW/g; SAR(10 g) = 0.161 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

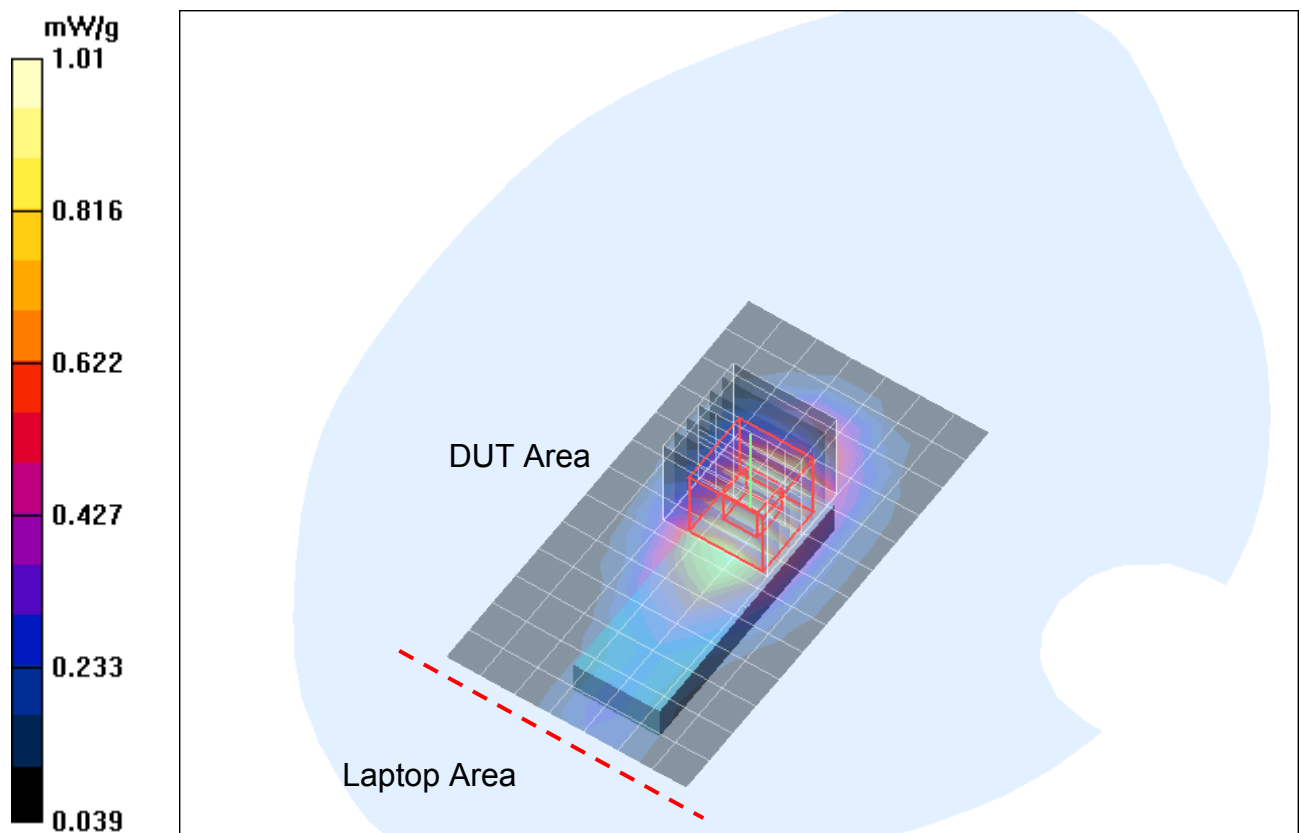


Fig. 39: Worst case SAR distribution for WCDMA II, channel 9262, Position B (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhm 2.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.04 mW/g

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

Reference Value = 23.8 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.567 mW/g

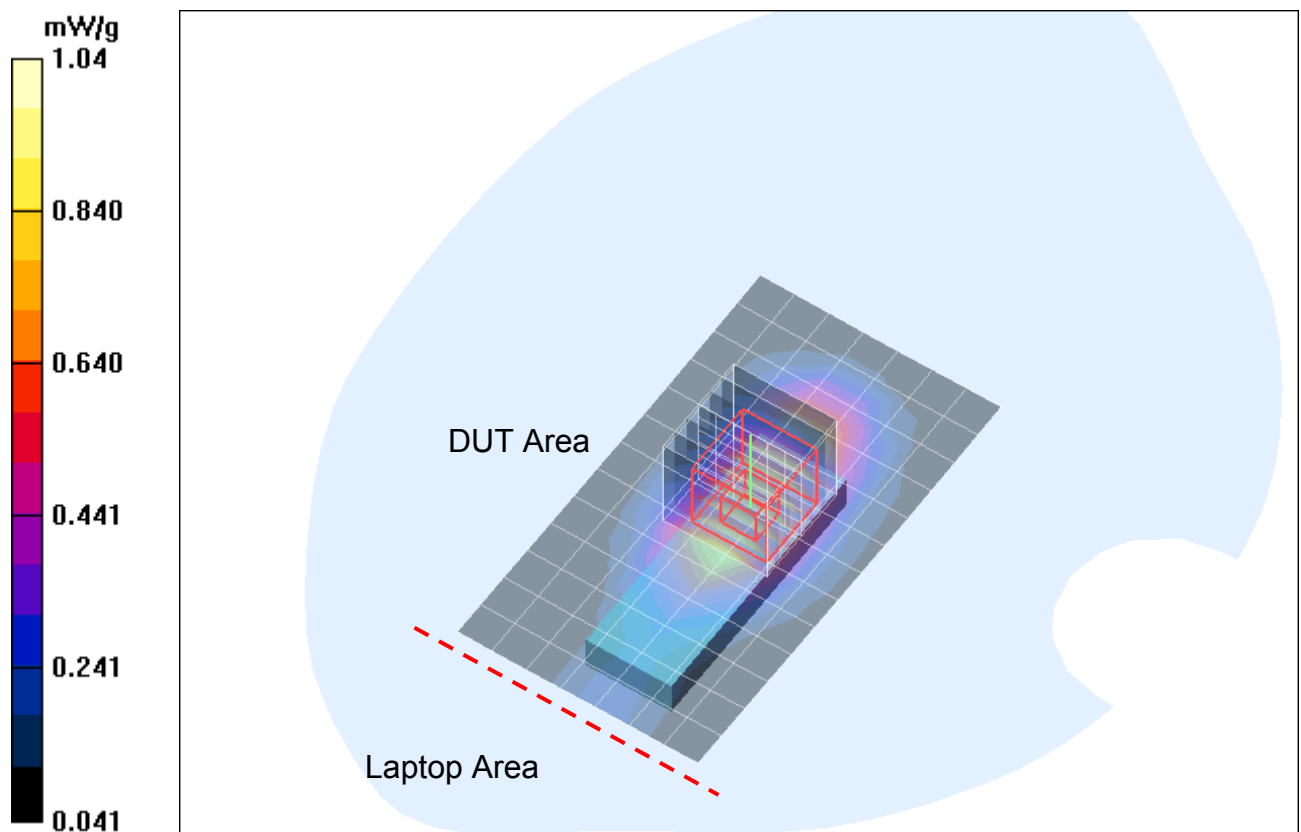


Fig. 40: Worst case SAR distribution for WCDMA II, channel 9400, Position B (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhh 2.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.984 mW/g

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

Reference Value = 23.6 V/m; Power Drift = -0.199 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.546 mW/g

Maximum value of SAR (measured) = 1.03 mW/g

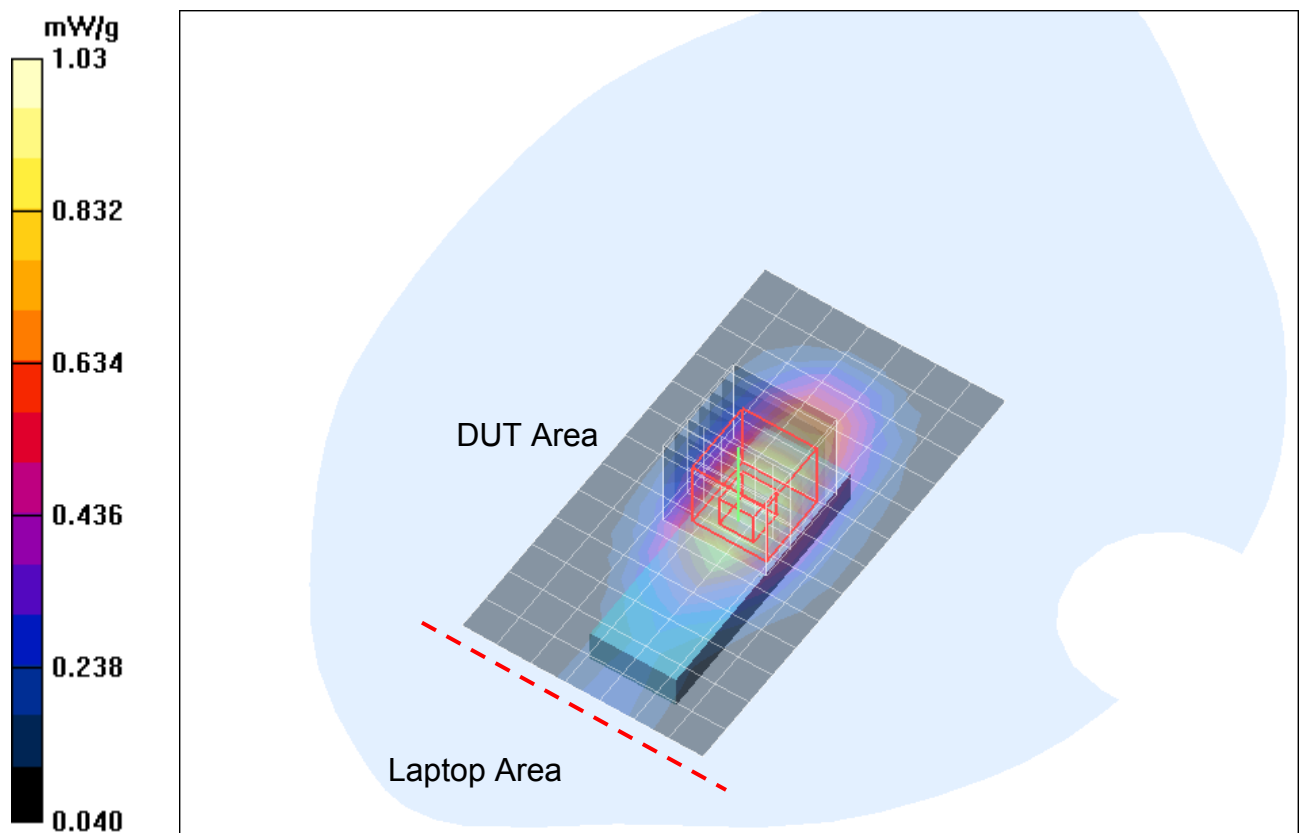


Fig. 41: Worst case SAR distribution for WCDMA II, channel 9538, Position B (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhm 3.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 18.3 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.764 mW/g; SAR(10 g) = 0.437 mW/g

Maximum value of SAR (measured) = 0.856 mW/g

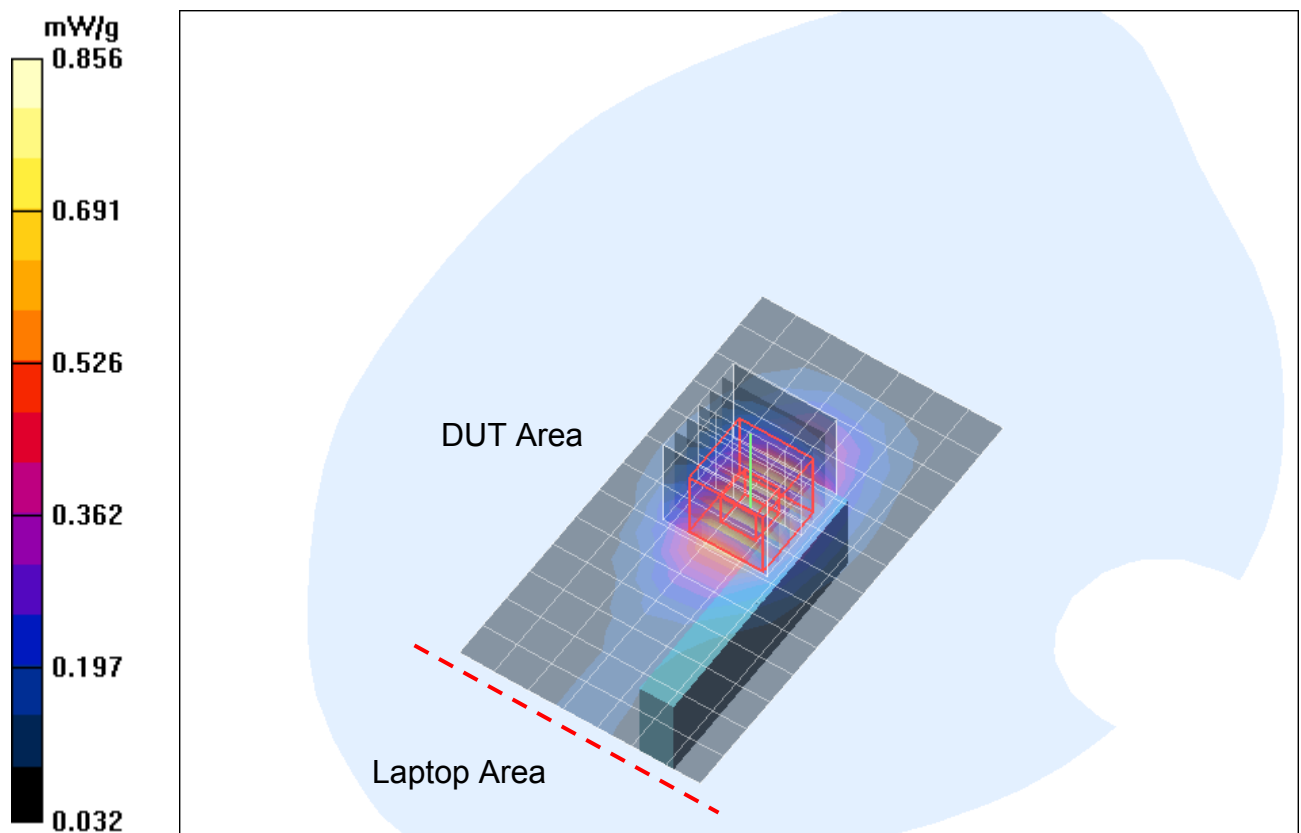


Fig. 42: SAR distribution for WCDMA II, channel 9400, Position C (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179 bullhm 4.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.832 mW/g

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

Reference Value = 13.6 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 0.840 mW/g

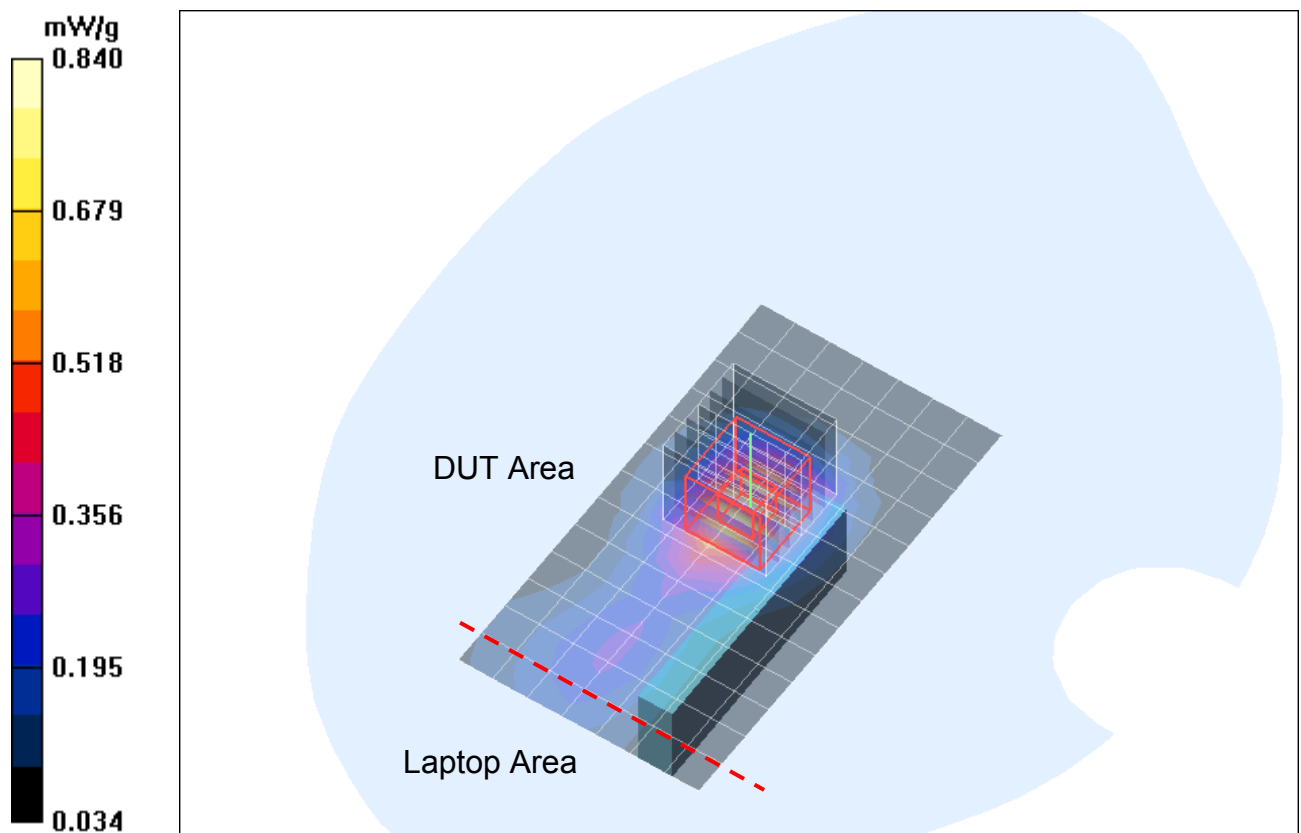


Fig. 43: SAR distribution for WCDMA II, channel 9400 Position D (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [179_bullhm_5.da4](#)

DUT: Option ; **Type:** iCon 461; **Serial:** 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (10x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.105 mW/g

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

Reference Value = 8.62 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.063 mW/g

Maximum value of SAR (measured) = 0.114 mW/g

FDD II/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 8.62 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.212 W/kg

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.113 mW/g

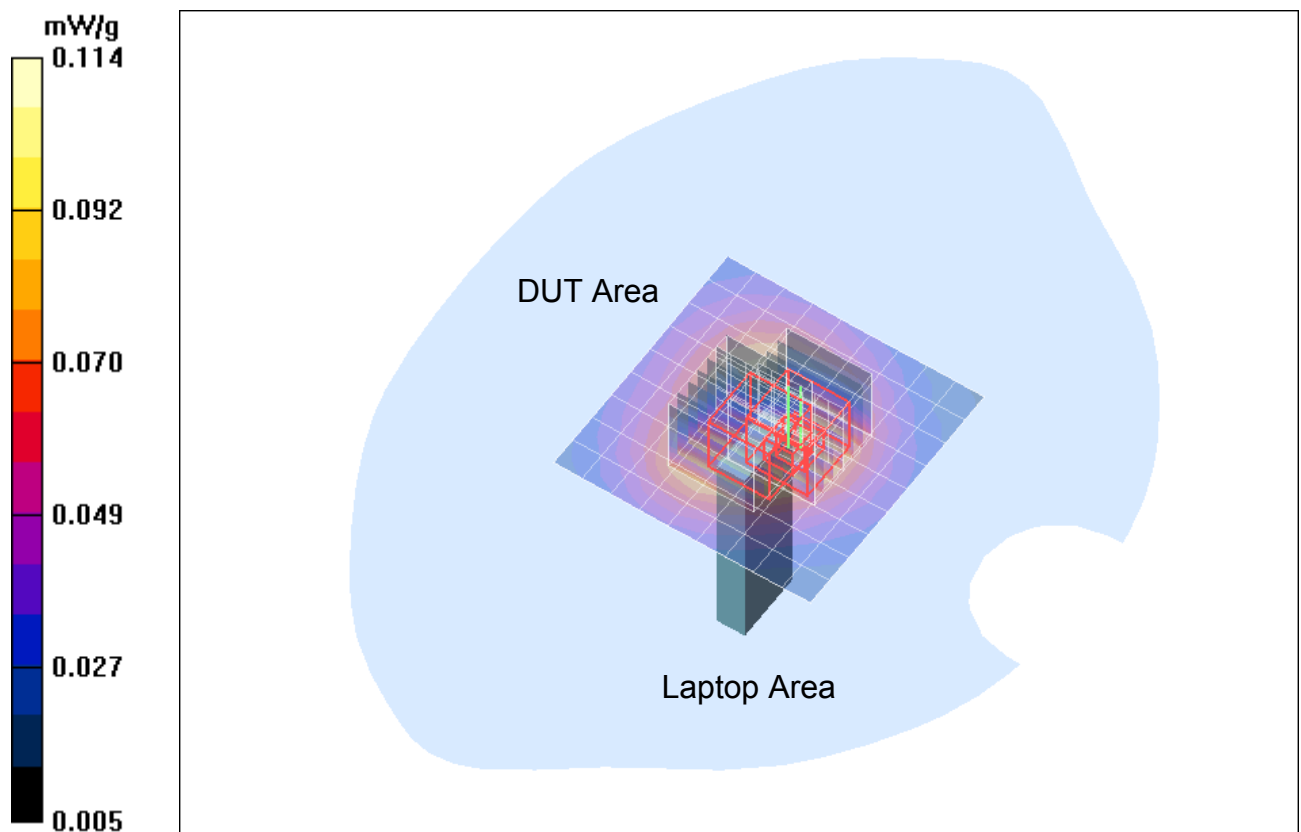


Fig. 44: SAR distribution for WCDMA II, channel 9400 Position E (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bullhl_1_HSDPA.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.16 mW/g

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

Reference Value = 17.3 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.603 mW/g

Maximum value of SAR (measured) = 1.17 mW/g

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

Reference Value = 17.3 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.853 mW/g; SAR(10 g) = 0.516 mW/g

Maximum value of SAR (measured) = 0.985 mW/g

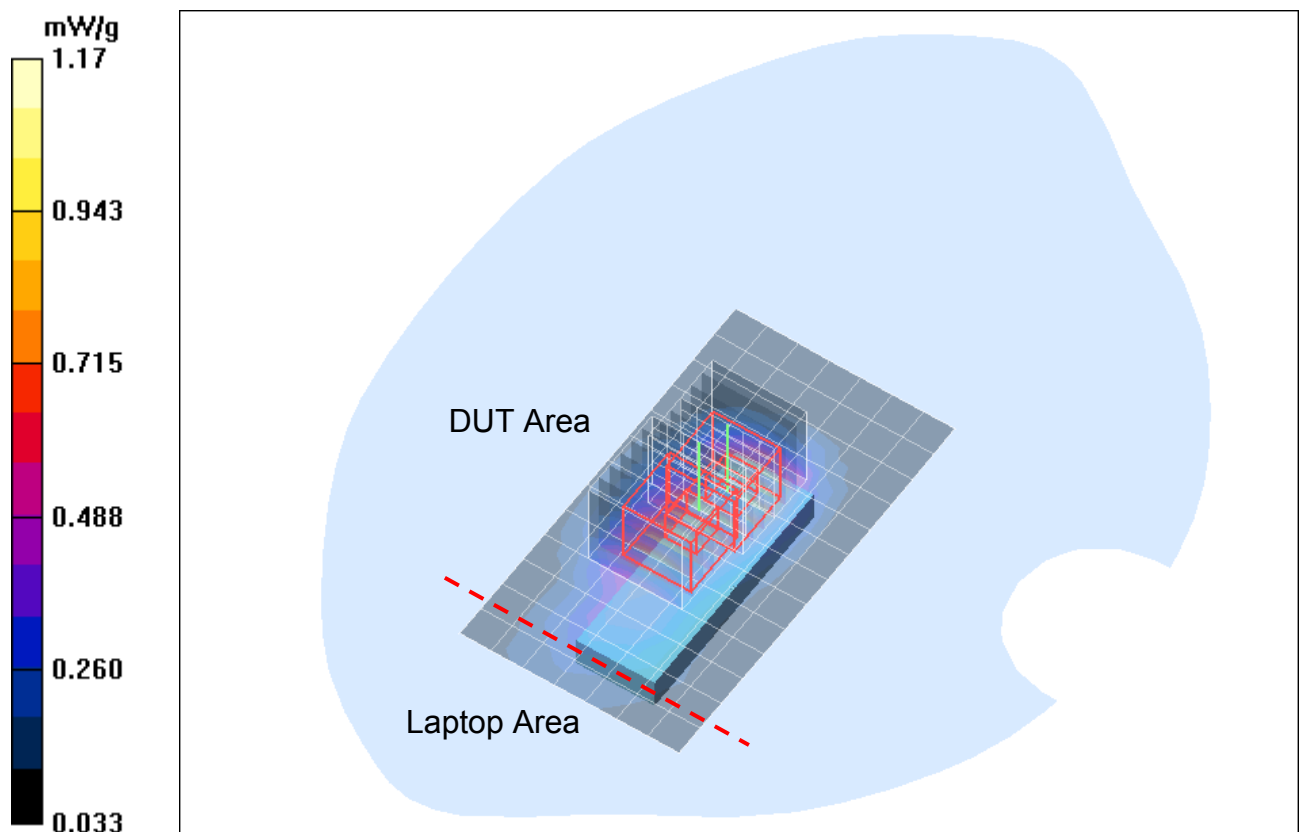


Fig. 45: SAR distribution for WCDMA II with HSDPA activated, channel 9262, Position A (Fujitsu Siemens Amilo Pro, May 19, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [179_bullhl_1_HSUPA.da4](#)

DUT: Option ; Type: iCon 461; Serial: 004401441320179

Program Name: Body

Communication System: WCDMA FDD Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.69, 4.69, 4.69); Calibrated: 10.02.2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.02.2009
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

FDD II/Area Scan (8x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.06 mW/g

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

Reference Value = 16.4 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.546 mW/g

Maximum value of SAR (measured) = 1.05 mW/g

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

Reference Value = 16.4 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.460 mW/g

Maximum value of SAR (measured) = 0.992 mW/g

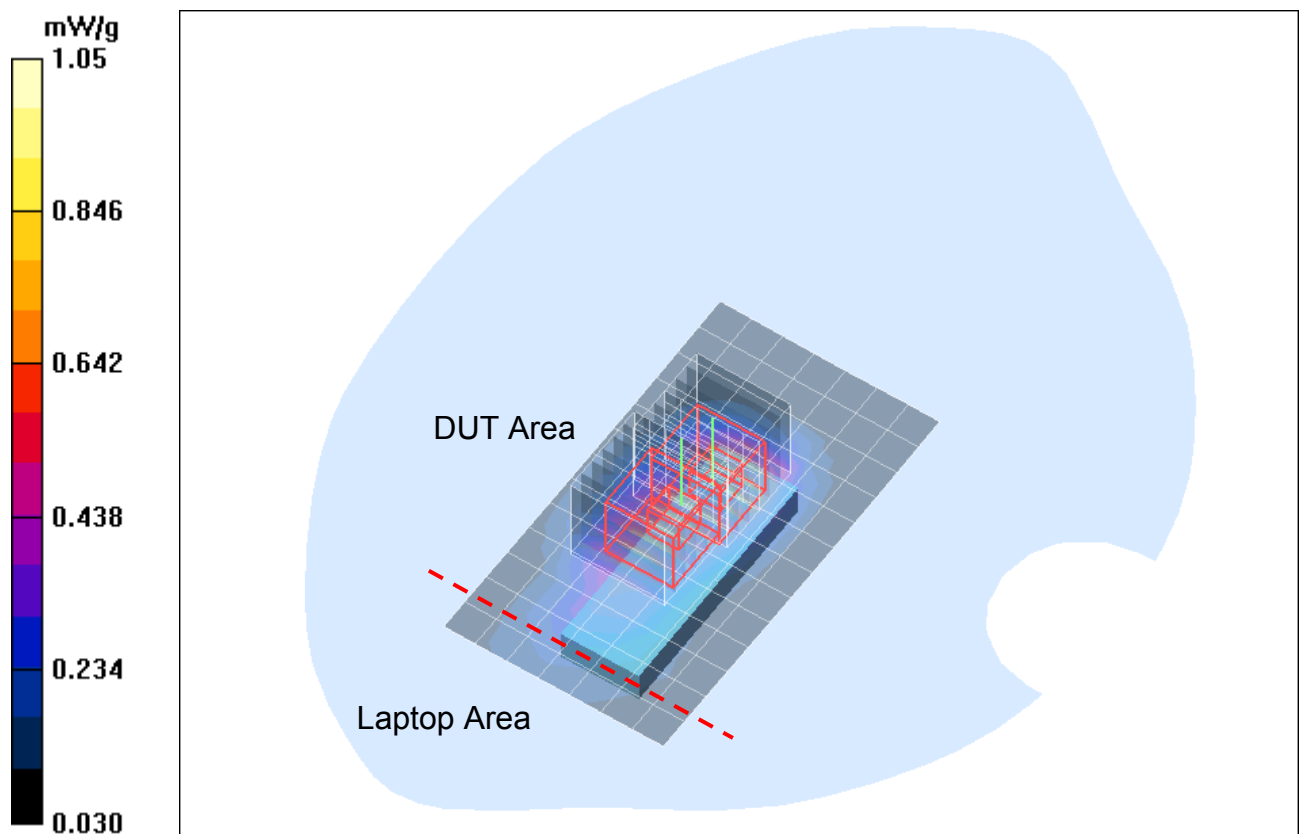


Fig. 46: SAR distribution for WCDMA II with HSUPA activated, channel 9262, Position A (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).

7 SAR z-axis scans (Validation)

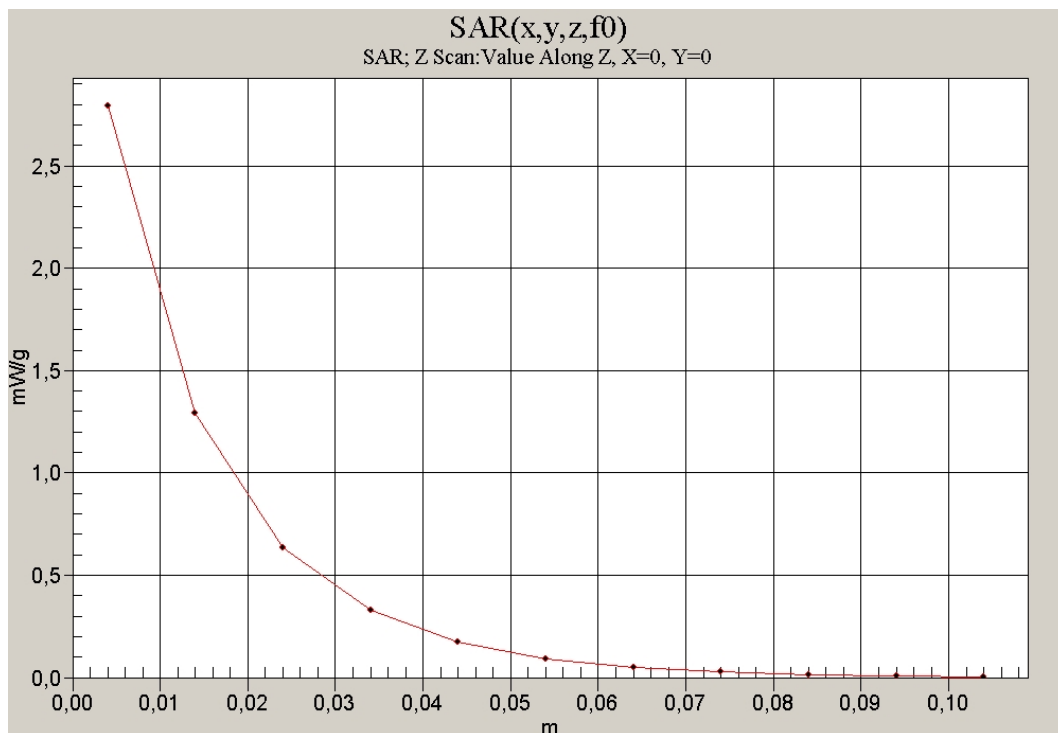


Fig. 47: SAR versus liquid depth, 835 MHz, (GPRS/EDGE 850) body (October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.1°C).

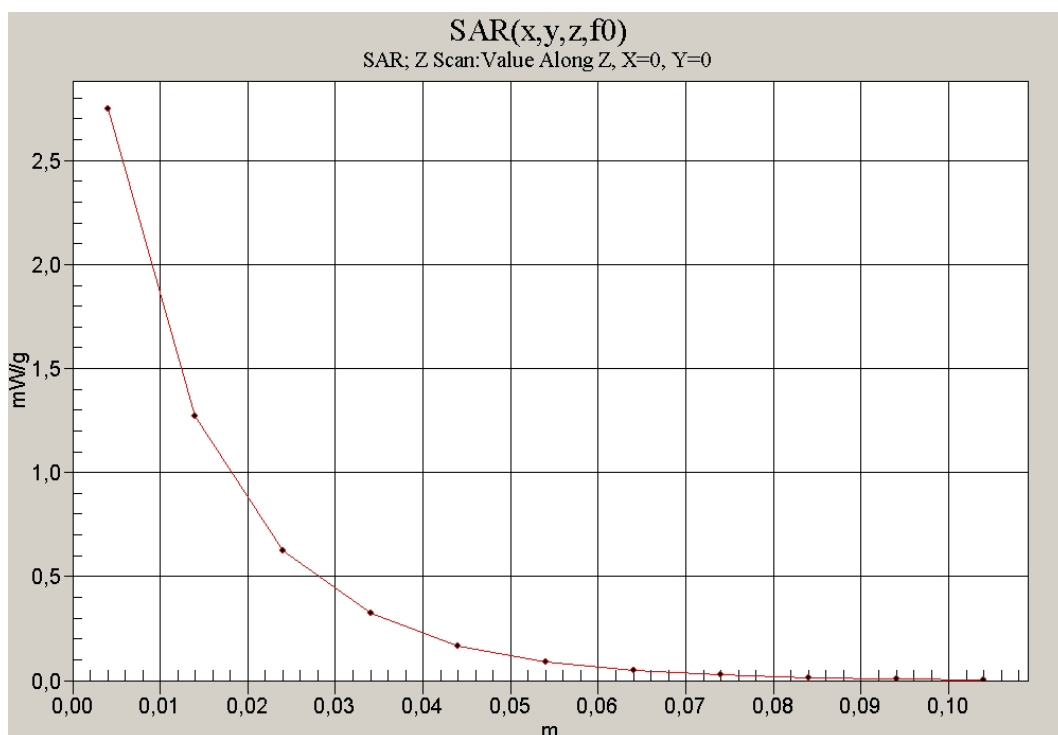


Fig. 48: SAR versus liquid depth, 835 MHz (WCDMA V), body (September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

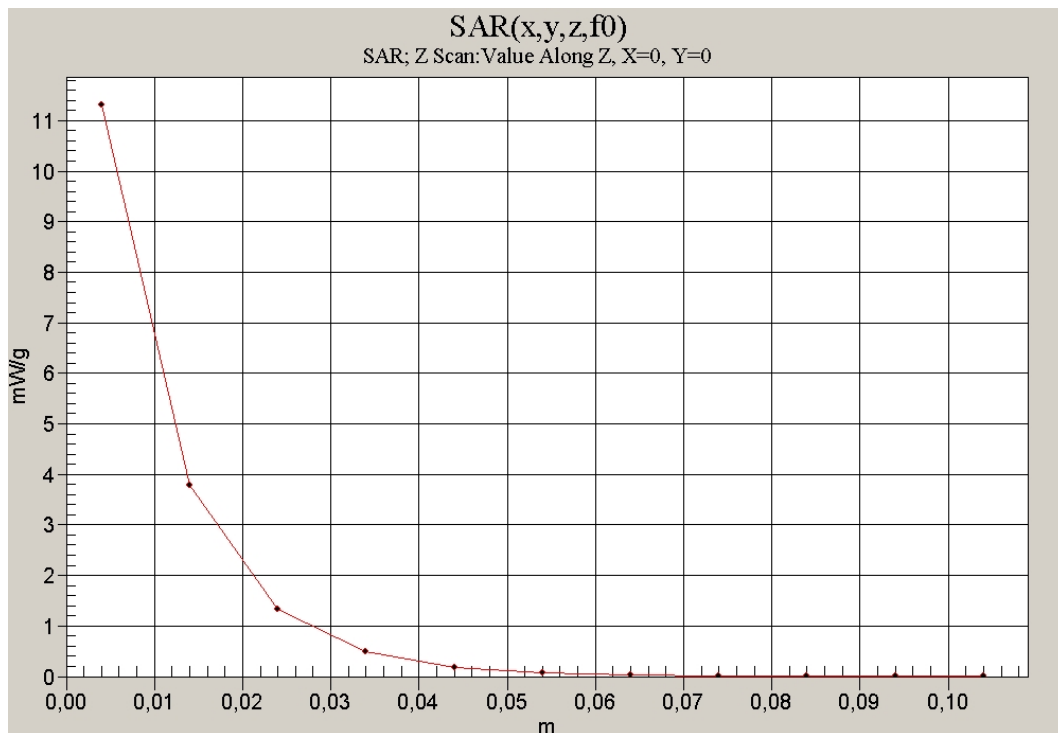


Fig. 49: SAR versus liquid depth, 1900 MHz (GPRS/EDGE 1900) body (September 29, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

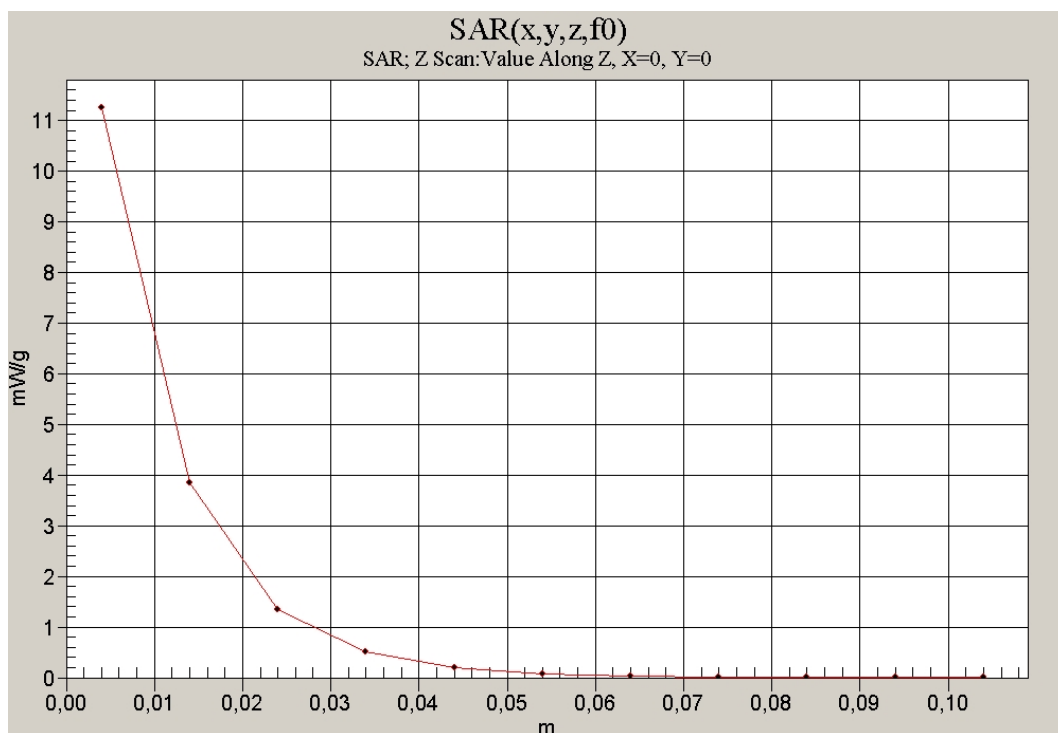


Fig. 50: SAR versus liquid depth, 1900 MHz (WCDMA II), body (September 28, 2009; Ambient Temperature: 20.8°C; Liquid Temperature: 20.6°C).

8 SAR z-axis scans (Measurements)

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

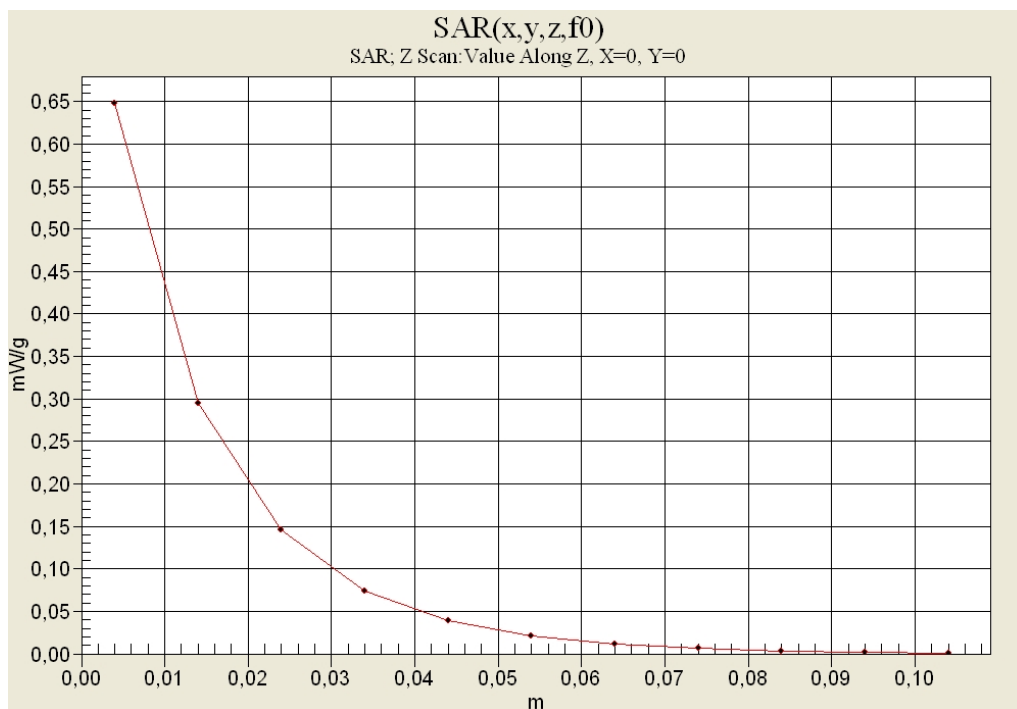


Fig. 51: SAR versus liquid depth, body: GPRS 850 (Class 10), channel 190, Position D (Fujitsu Siemens Amilo Pro, October 01, 2009; Ambient Temperature: 21.5°C; Liquid Temperature: 21.0°C).

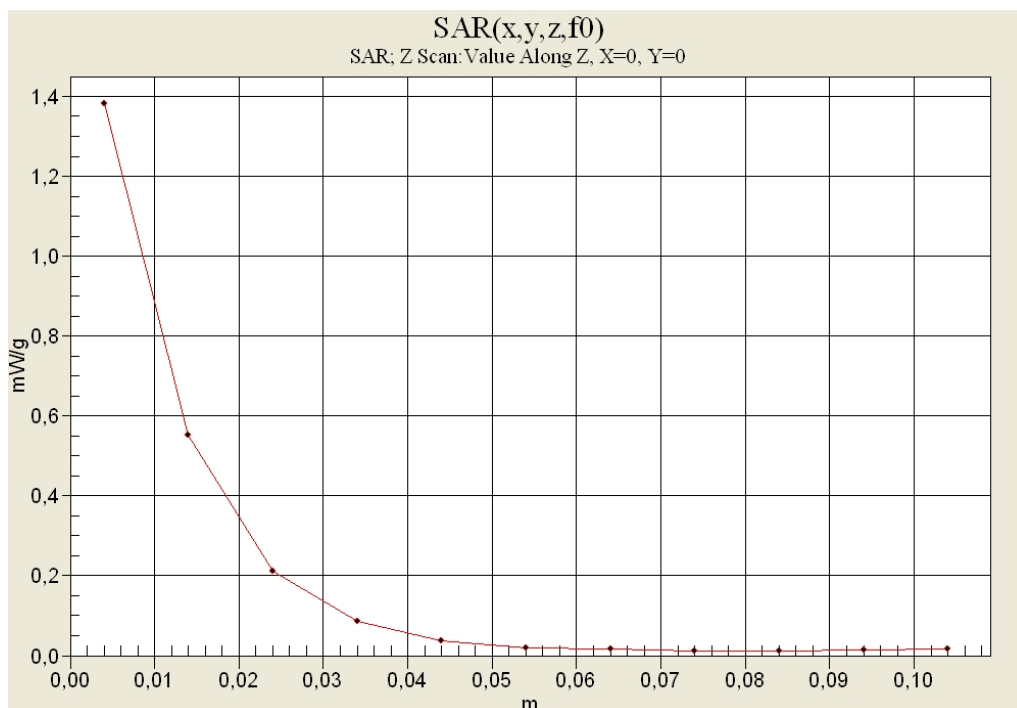


Fig. 52: SAR versus liquid depth, body: EDGE 1900 (Class 10), channel 512, Position A (Fujitsu Siemens Amilo Pro, September 29, 2009; Ambient Temperature: 21.3°C; Liquid Temperature: 20.8°C).

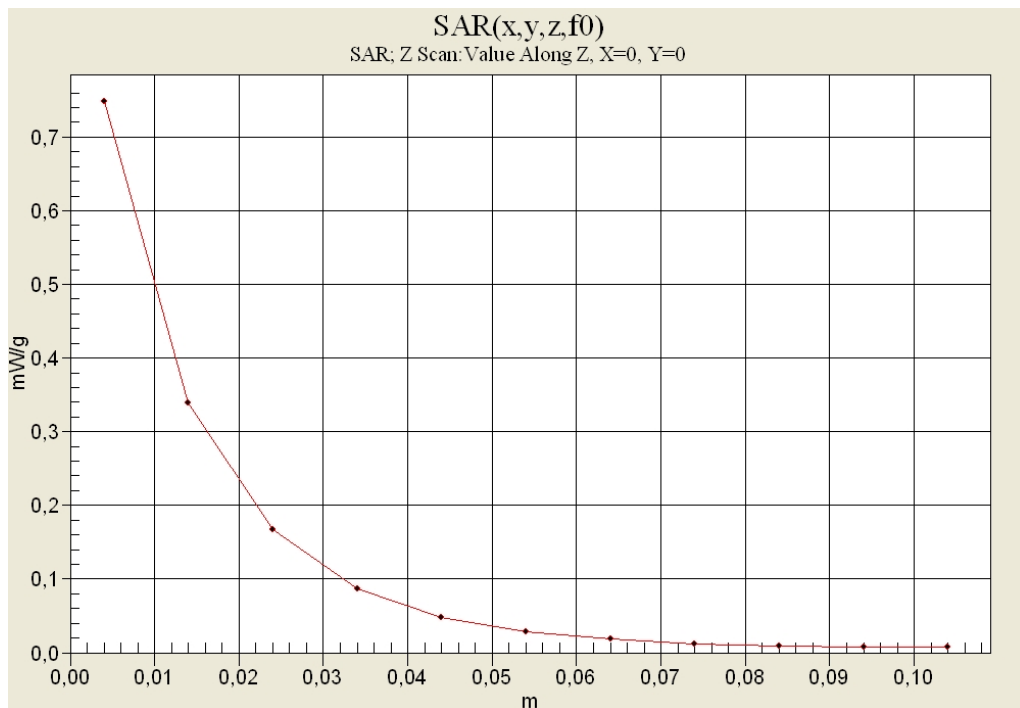


Fig. 53: SAR versus liquid depth, body: WCDMA V, channel 4183, Position D, HSDPA activated, (Fujitsu Siemens Amilo Pro, September 30, 2009; Ambient Temperature: 21.2°C; Liquid Temperature: 20.8°C).

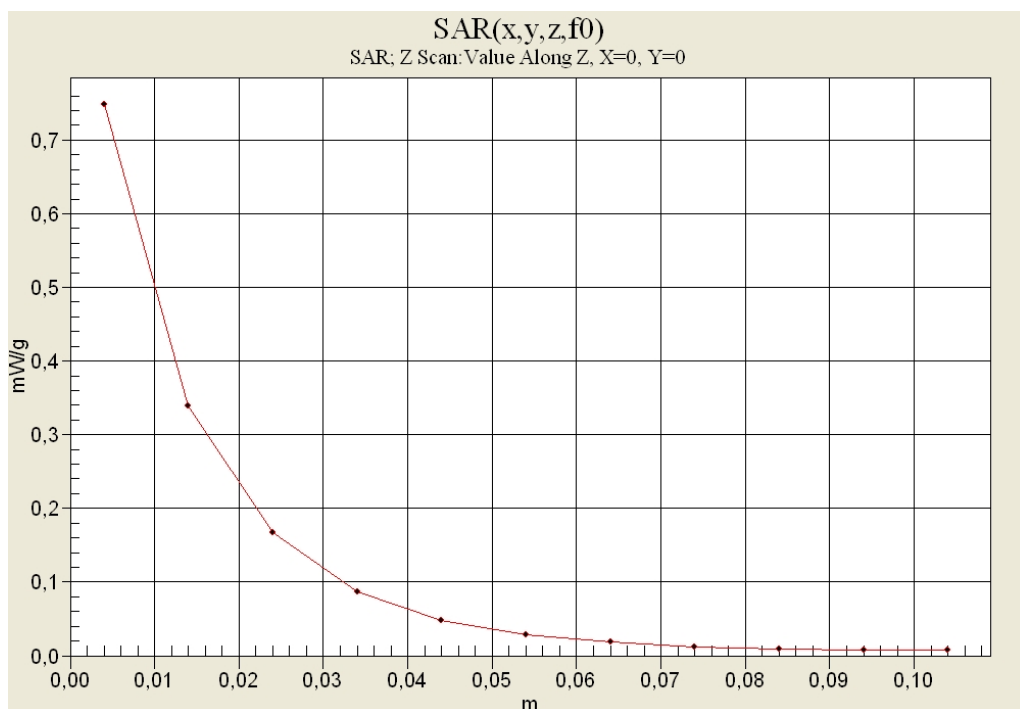


Fig. 54: SAR versus liquid depth, body: WCDMA II, channel 9262, Position A (Fujitsu Siemens Amilo Pro, September 28, 2009; Ambient Temperature: 20.9°C; Liquid Temperature: 20.6°C).