



The Testcenter facility 'Dosimetric Test Lab' within IMST GmbH is accredited by the German National 'Deutsche Akkreditierungsstelle GmbH (DAkkS)' for testing according to the scope as listed in the accreditation certificate: D-PL-12139-01-00.

Appendix for the Report

Dosimetric Assessment of the Portable Device CLEAR-COM BP1G9 (FCC ID: BYMBP1G9) (IC: 1860A-BP1G9)

According to the FCC Requirements SAR Distribution Plots

June 05, 2014

IMST GmbH
Carl-Friedrich-Gauß-Str. 2 - 4
D-47475 Kamp-Lintfort

Customer
HM Electronics, Inc.
14110 Stowe Drive, Poway
CA 92064
USA

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.

1 SAR Distribution Plots for Antenna 1

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_front_ant1.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (10x12x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 2.49 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.071 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.038 mW/g

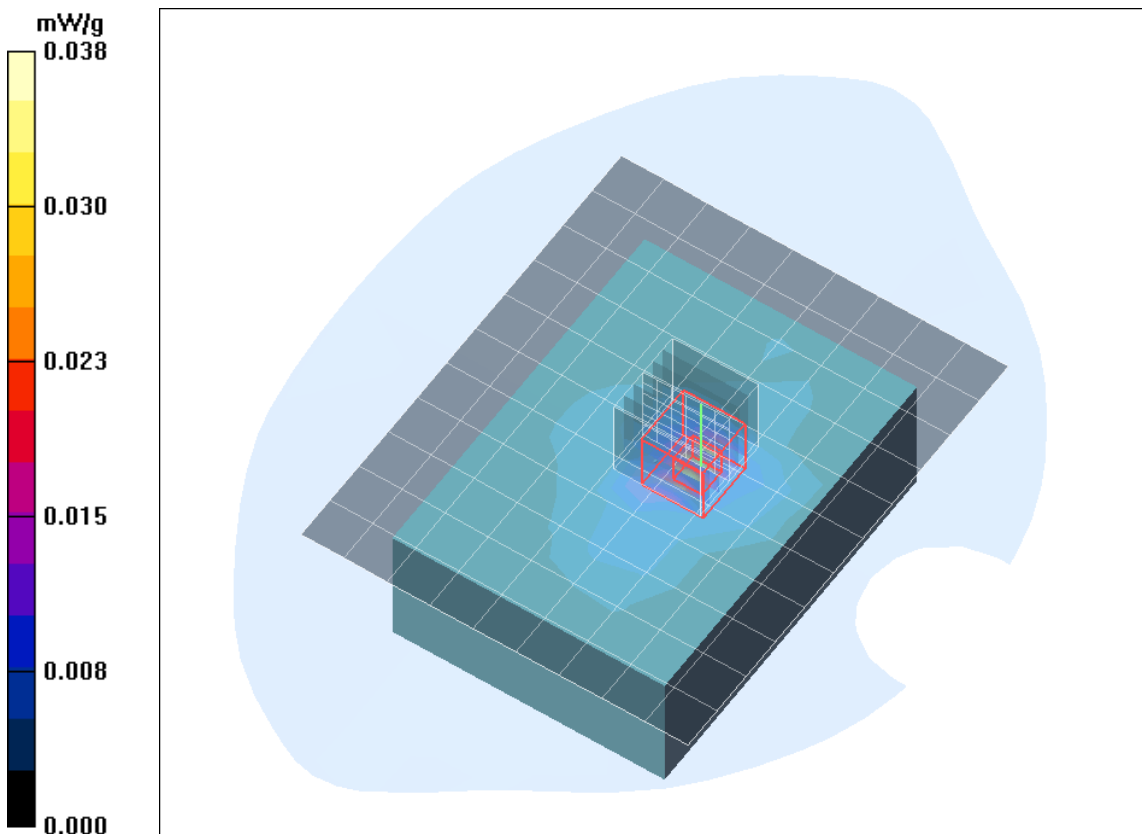


Fig. 1: SAR distribution plot for US DECT standard, antenna 1, channel 02, front side towards the phantom, 0 mm (May 22, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_back_ant1.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014

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

- Electronics: DAE4 Sn631; Calibrated: 23.09.2013

- 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 (10x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

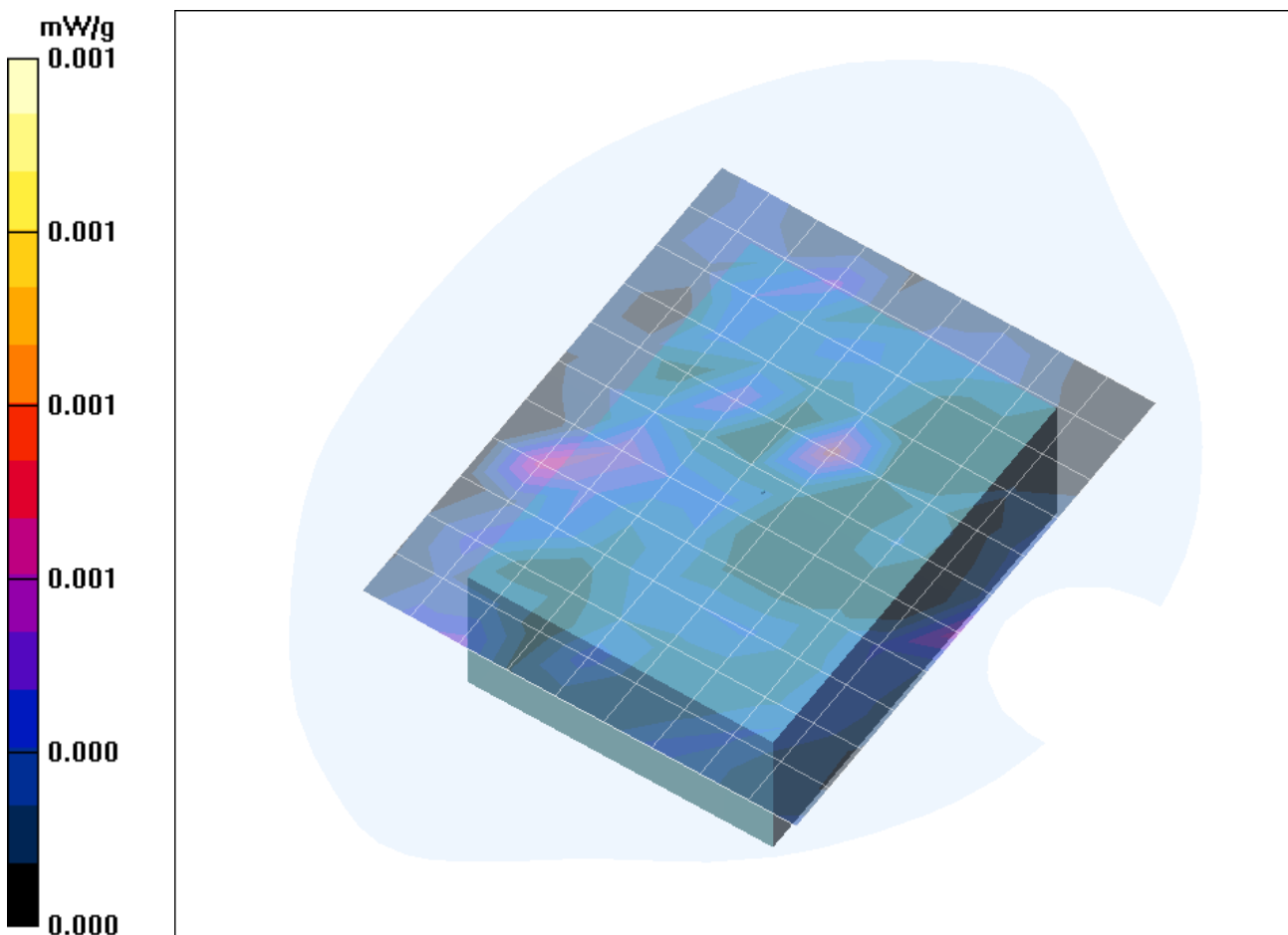


Fig. 2: SAR distribution plot for US DECT standard, antenna 1, channel 02, back side towards the phantom, 0 mm (May 22, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_top_ant1.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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) = 0.004 mW/g

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

Reference Value = 1.87 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00408 mW/g; SAR(10 g) = 0.00237 mW/g

Maximum value of SAR (measured) = 0.005 mW/g

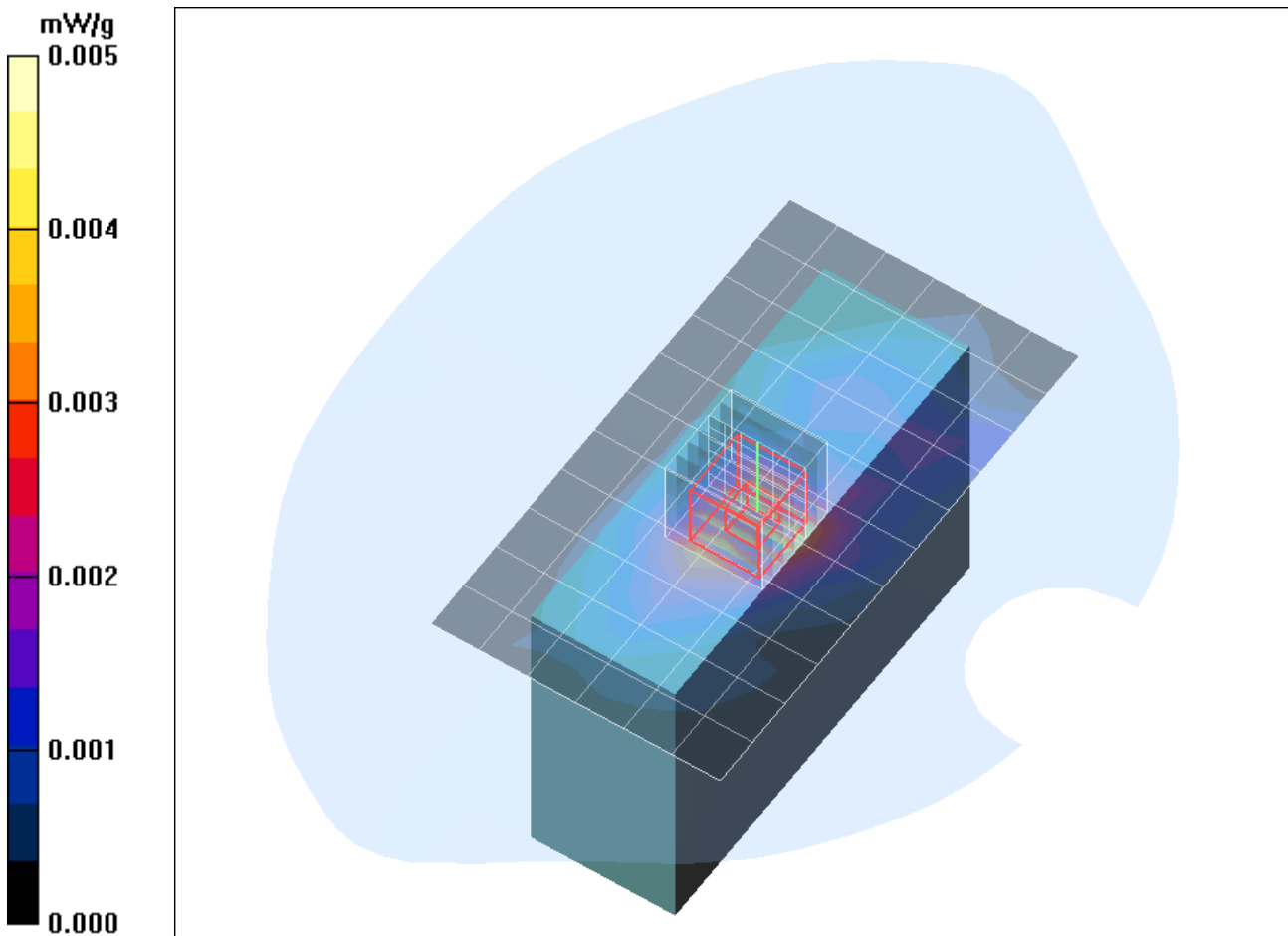


Fig. 3: SAR distribution plot for US DECT standard, antenna 1, channel 02, top edge towards the phantom, 0 mm (May 22, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_bottom_ant1.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014

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

- Electronics: DAE4 Sn631; Calibrated: 23.09.2013

- 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) = 0.001 mW/g

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

Reference Value = 1.13 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.007 W/kg

SAR(1 g) = 0.00231 mW/g; SAR(10 g) = 0.000777 mW/g

Maximum value of SAR (measured) = 0.003 mW/g

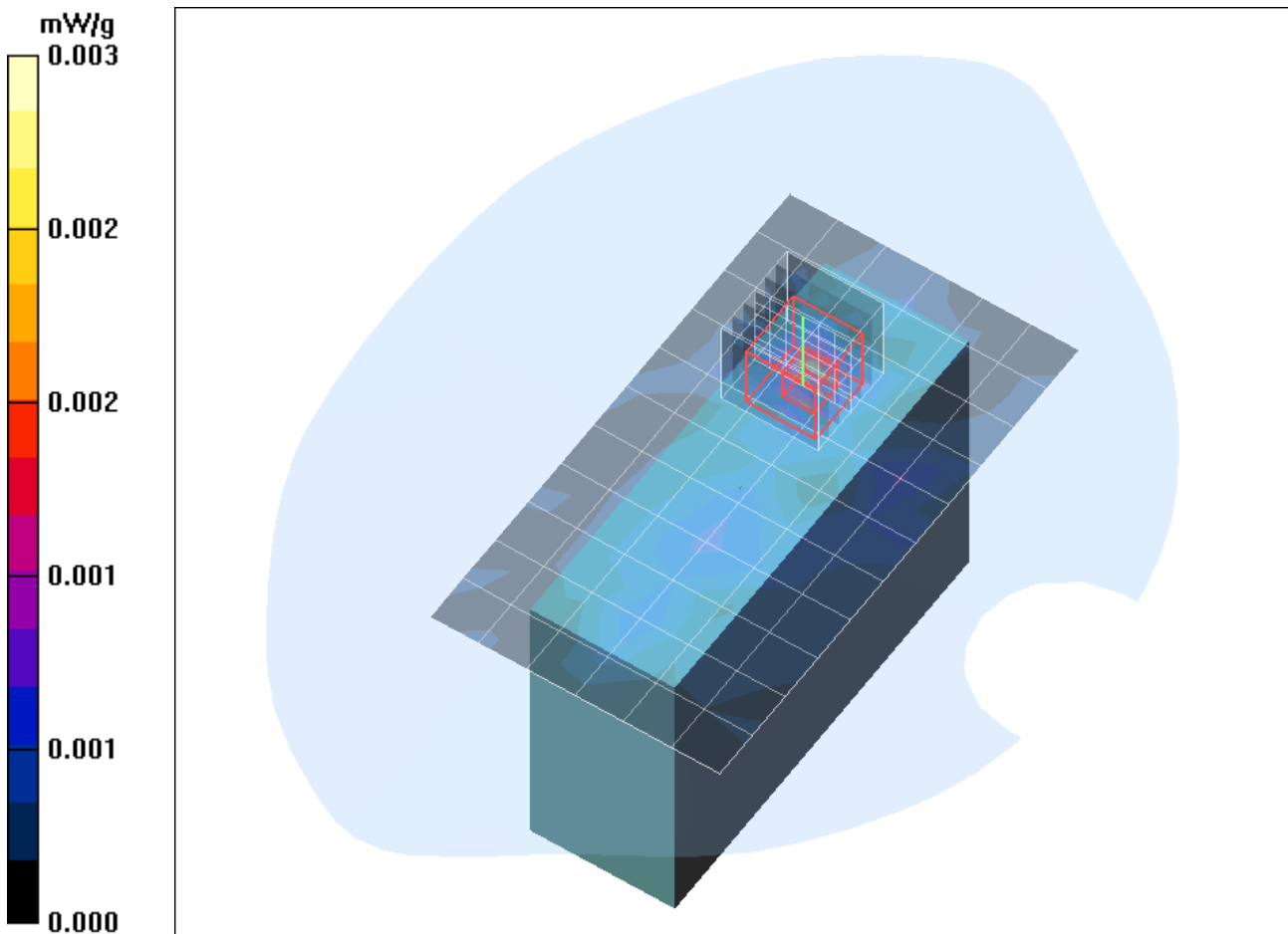


Fig. 4: SAR distribution plot for US DECT standard, antenna 1, channel 02, bottom edge towards the phantom, 0 mm (May 22, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_left_ant1.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.003 mW/g

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

Reference Value = 1.24 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00202 mW/g; SAR(10 g) = 0.00108 mW/g

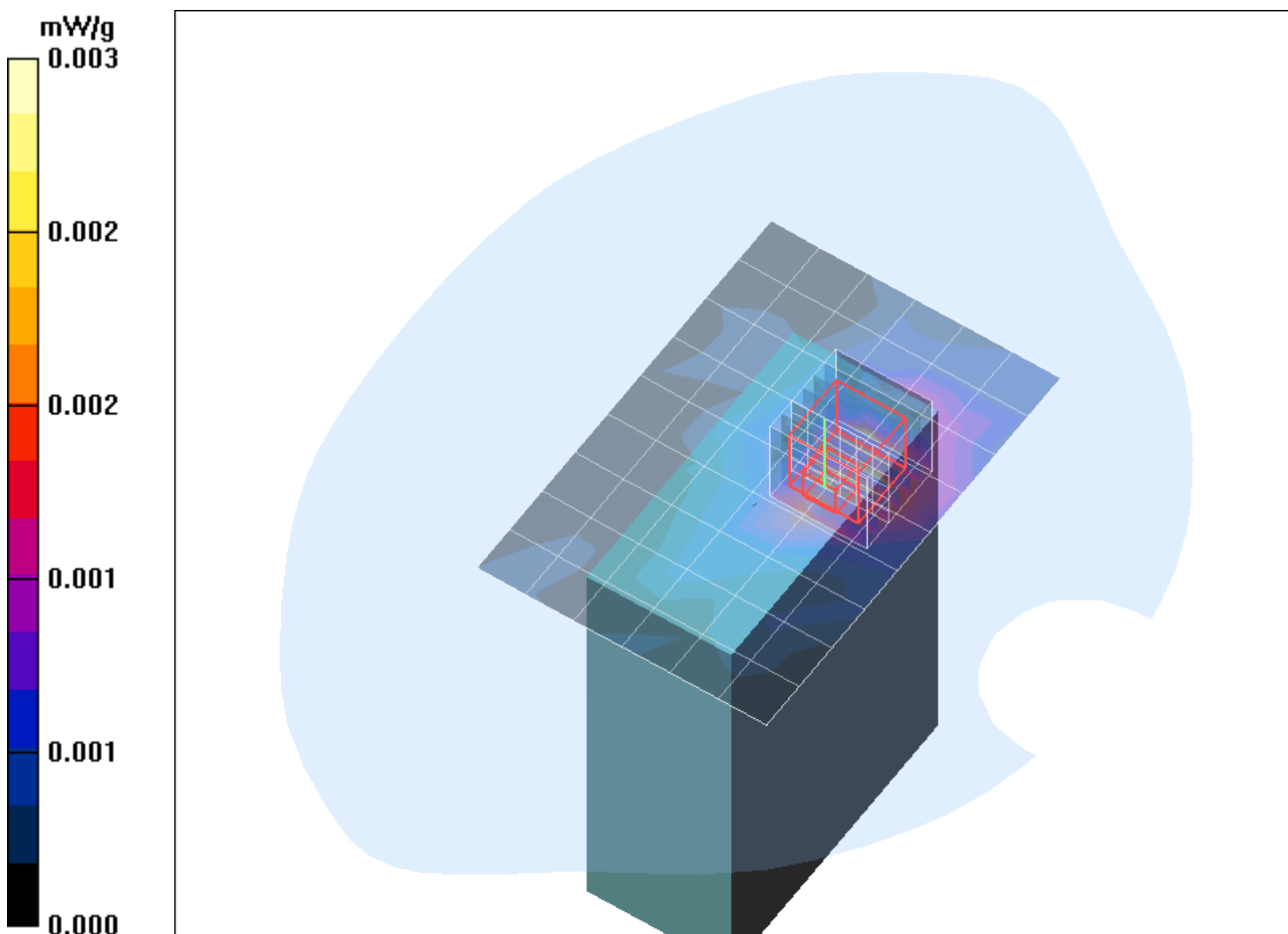


Fig. 5: SAR distribution plot for US DECT standard, antenna 1, channel 02, left edge towards the phantom, 0 mm (May 22, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_right_ant1.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.913 V/m; Power Drift = 0.090 dB

Peak SAR (extrapolated) = 0.007 W/kg

SAR(1 g) = 0.00149 mW/g; SAR(10 g) = 0.000574 mW/g

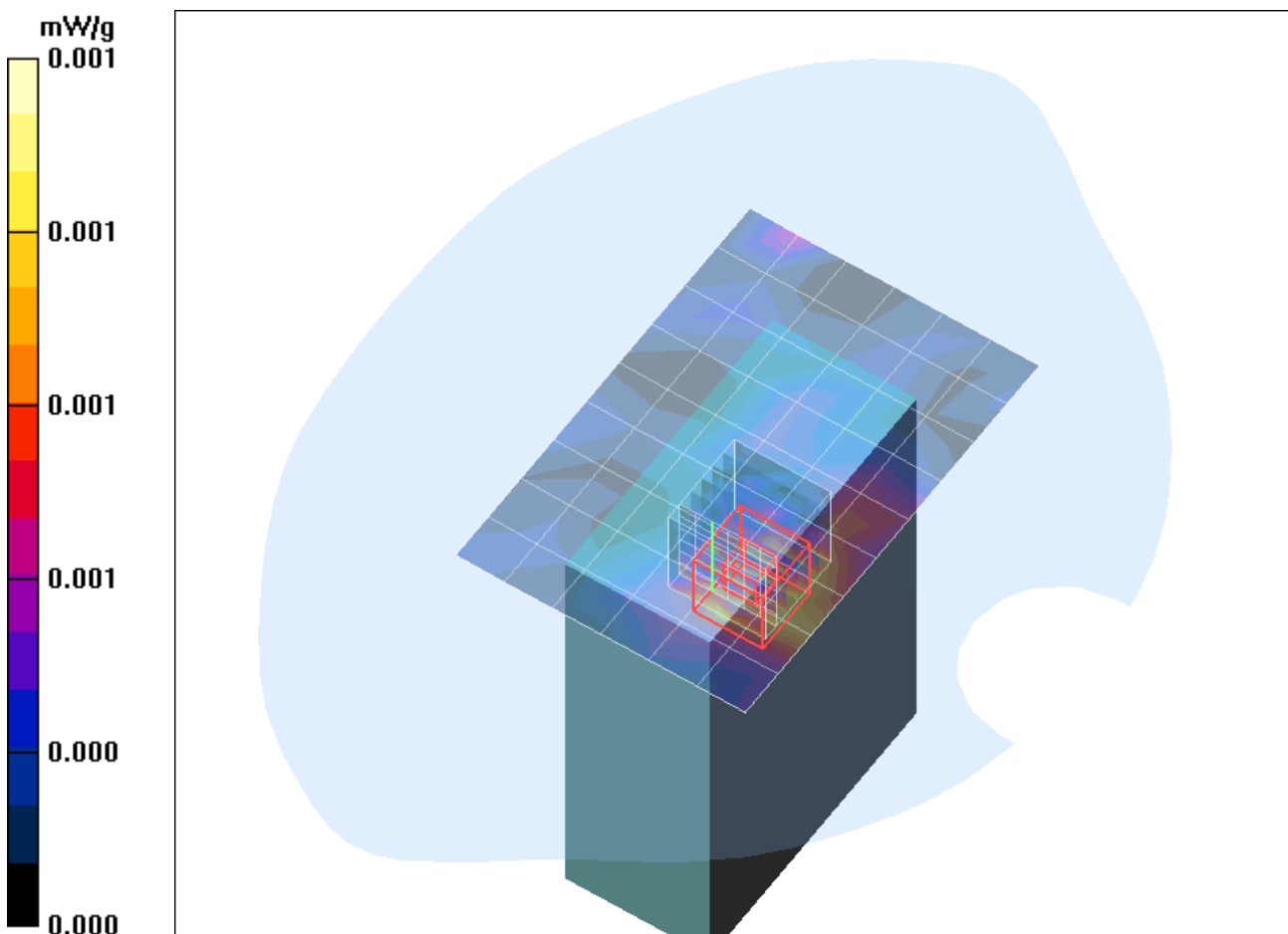


Fig. 6: SAR distribution plot for US DECT standard, antenna 1, channel 02, right edge towards the phantom, 0 mm (May 22, 2014)

2 SAR Distribution Plots for Antenna 2

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_front_ant2.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (10x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.087 mW/g

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

Reference Value = 3.37 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.086 mW/g

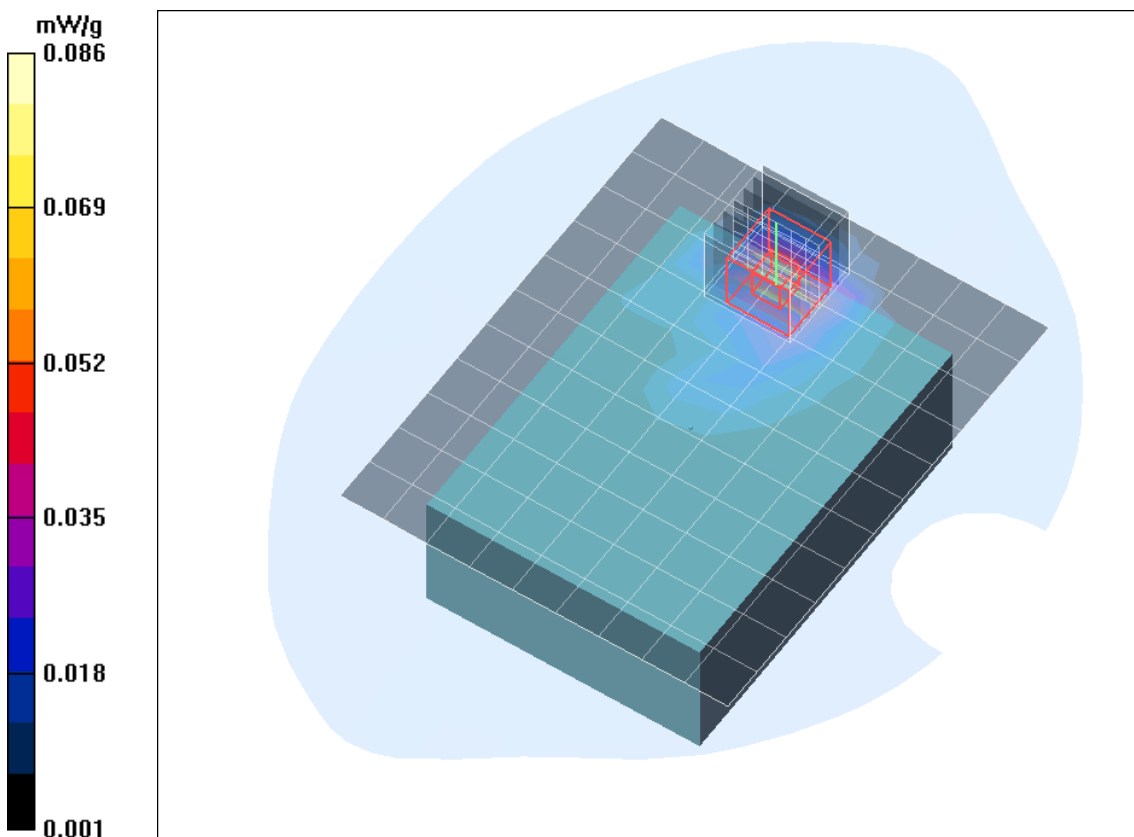


Fig. 7: SAR distribution plot for US DECT standard, antenna 2, channel 02, front side towards the phantom, 0 mm (May 23, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_back_ant2.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (10x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.012 mW/g

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

Reference Value = 2.94 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.017 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00716 mW/g

Maximum value of SAR (measured) = 0.013 mW/g

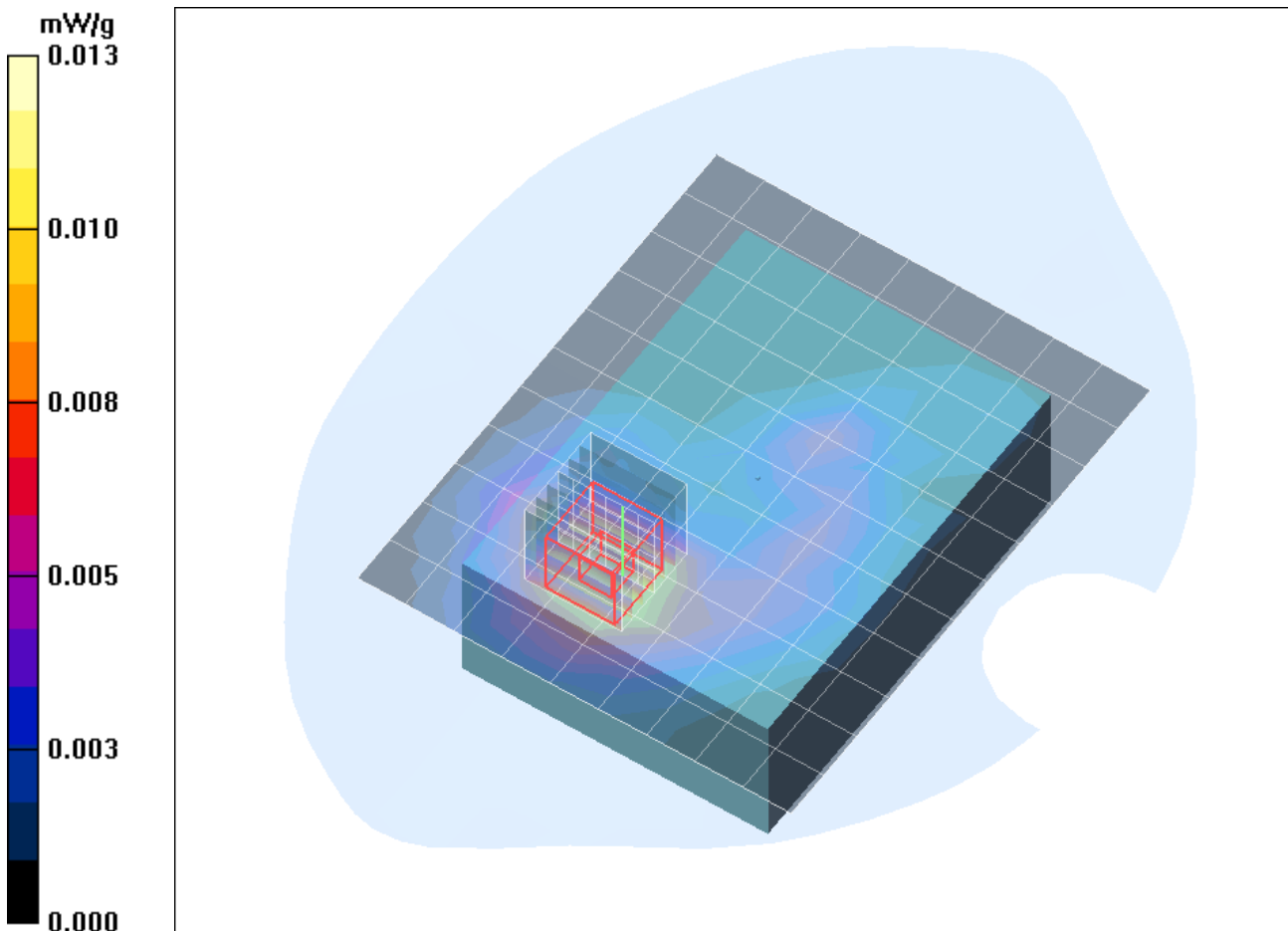


Fig. 8: SAR distribution plot for US DECT standard, antenna 2, channel 02, back side towards the phantom, 0 mm (May 23, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_top_ant2.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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) = 0.007 mW/g

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

Reference Value = 2.21 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.009 W/kg

SAR(1 g) = 0.00637 mW/g; SAR(10 g) = 0.00379 mW/g

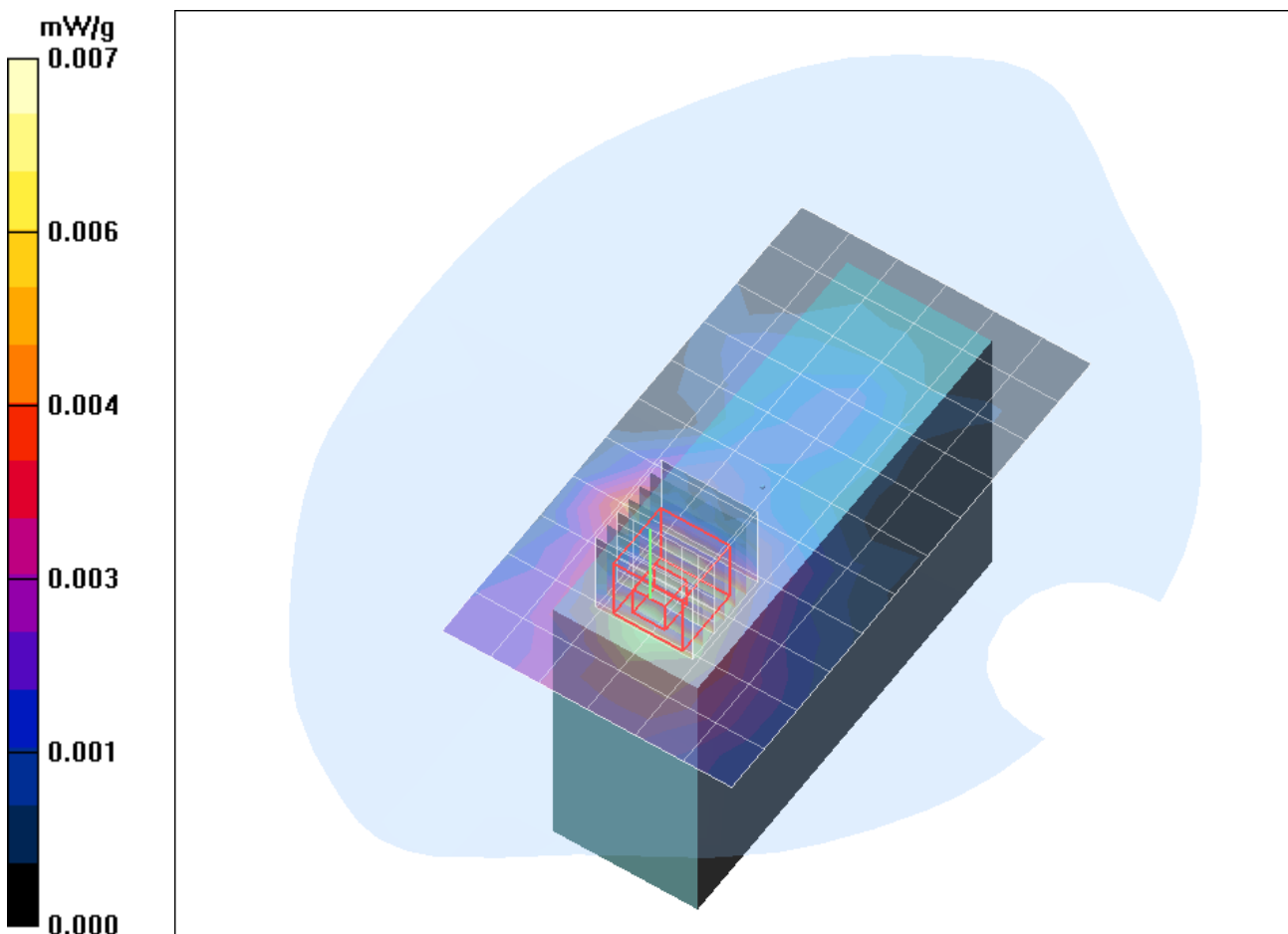


Fig. 9: SAR distribution plot for US DECT standard, antenna 2, channel 02, top edge towards the phantom, 0 mm (May 23, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_bottom_ant2.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.003 mW/g

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

Reference Value = 1.55 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00268 mW/g; SAR(10 g) = 0.00133 mW/g

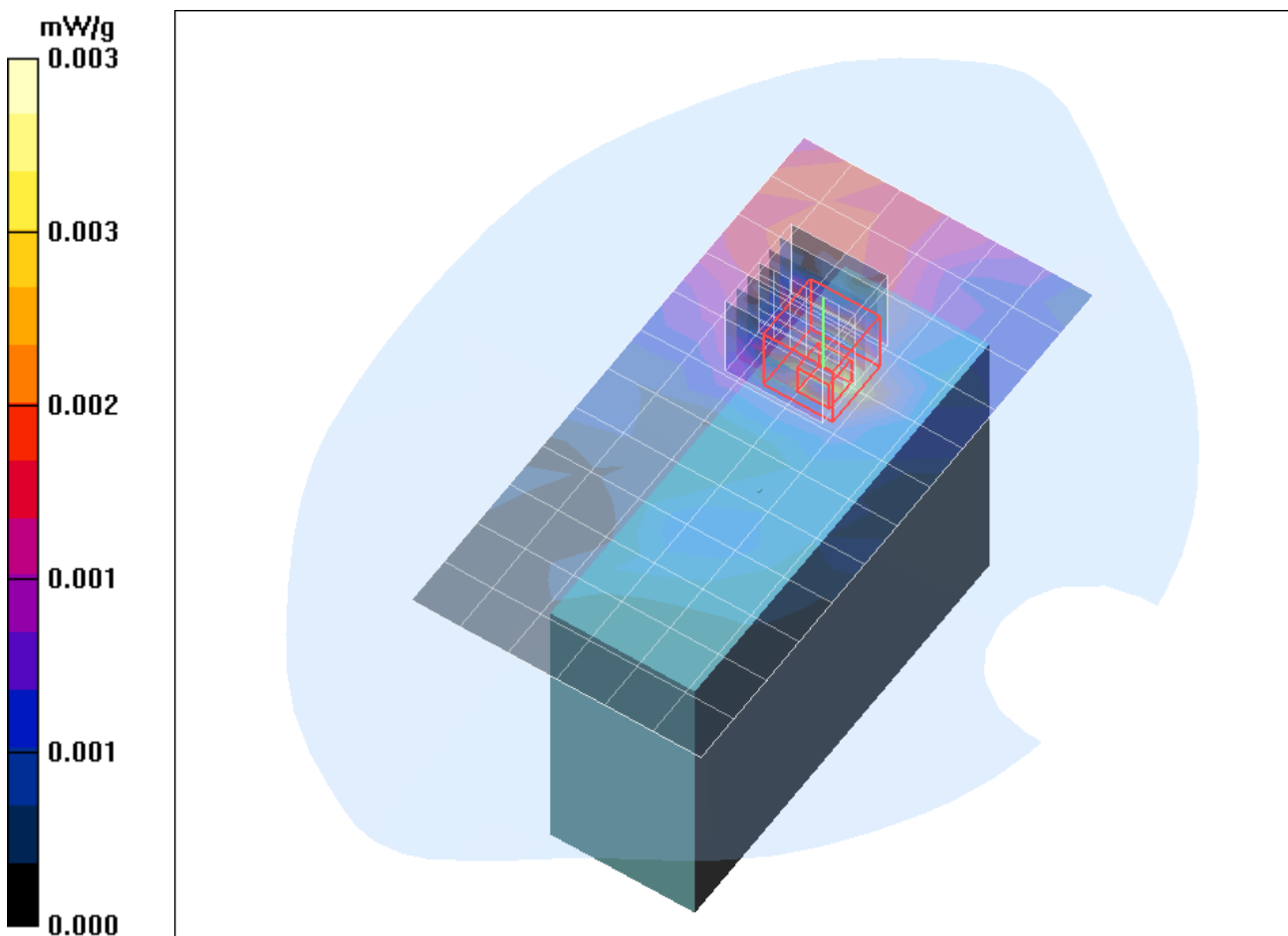


Fig. 10: SAR distribution plot for US DECT standard, antenna 2, channel 02, bottom edge towards the phantom, 0 mm (May 23, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [FSII_002_yhm_left_ant2.da4](#)

DUT: Clear-Com; **Type:** FS II-BP; **Serial:** F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.065 mW/g

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

Reference Value = 6.84 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.041 mW/g

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

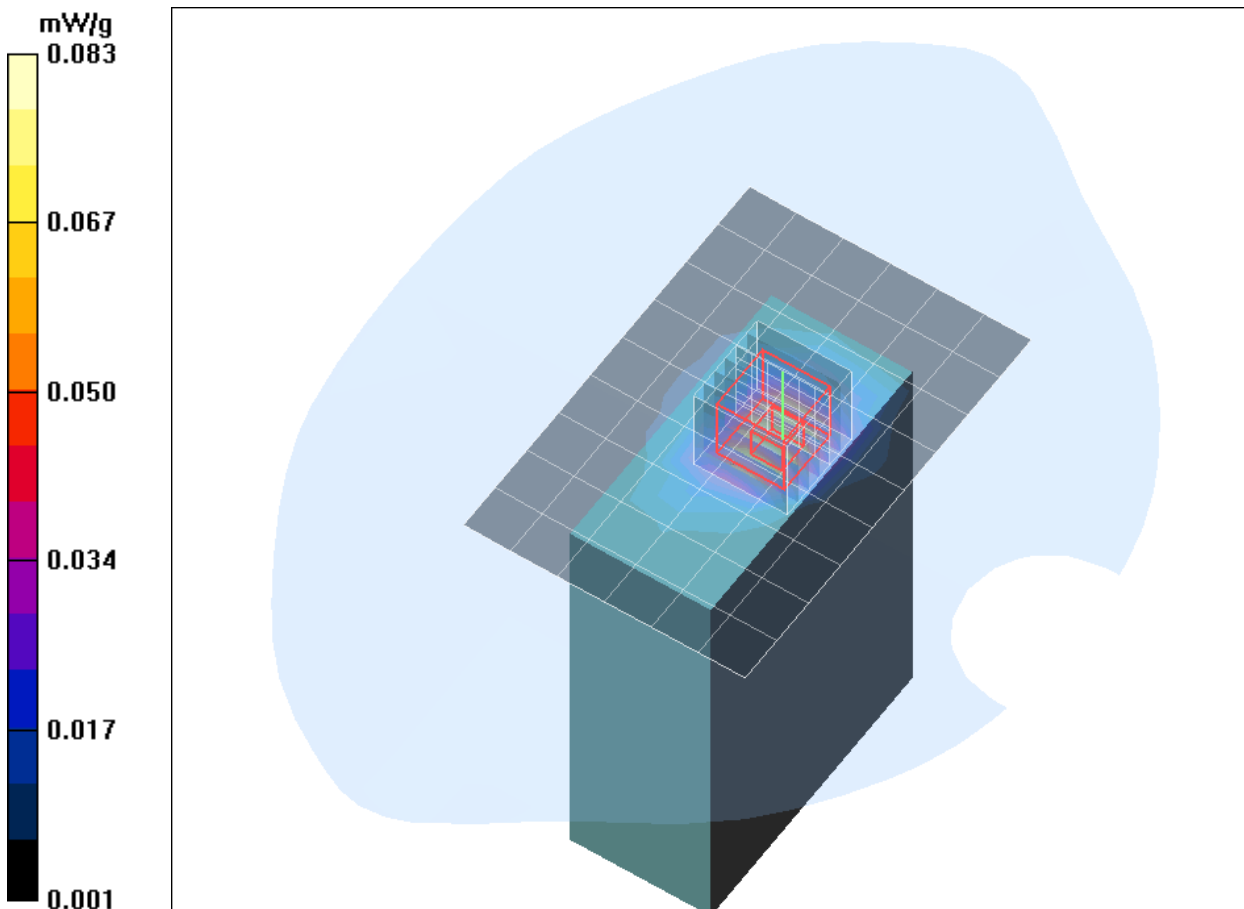


Fig. 11: SAR distribution plot for US DECT standard, antenna 2, channel 02, left edge towards the phantom, 0 mm (May 23, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [FSII_002_yhm_right_ant2.da4](#)

DUT: Clear-Com; Type: FS II-BP; Serial: F12TC002

Program Name: DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:12

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(4.57, 4.57, 4.57); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (8x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 1.12 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00125 mW/g; SAR(10 g) = 0.000534 mW/g

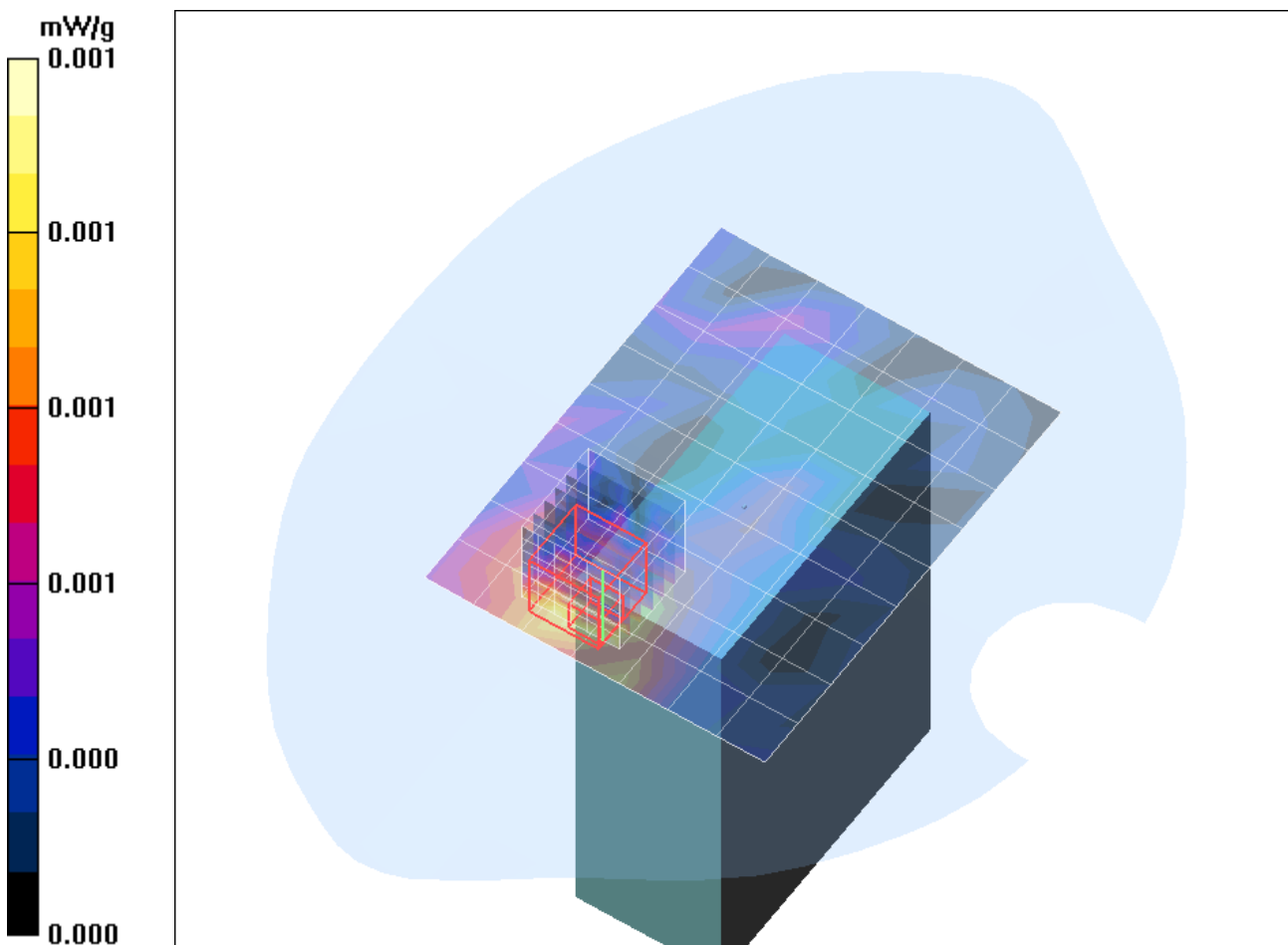


Fig. 12: SAR distribution plot for US DECT standard, antenna 2, channel 02, right edge towards the phantom, 0 mm (May 23, 2014)