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# Appendix for the Report

## Dosimetric Assessment of the Ascom DH3 (FCC ID: BXZDH3)

### According to the FCC Requirements

### SAR Distribution Plots

May 19, 2008  
**IMST GmbH**  
**Carl-Friedrich-Gauß-Str. 2**  
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The test results only relate to the items tested.  
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## 1 SAR Distribution Plots, Head Measurements, Antenna 1

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390\\_us\\_bplm\\_1\\_ant1.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT

Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2007

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Cheek Left/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.024 mW/g

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

Reference Value = 2.94 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 0.047 W/kg

**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.031 mW/g

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

Reference Value = 2.94 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 0.033 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.0087 mW/g**

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

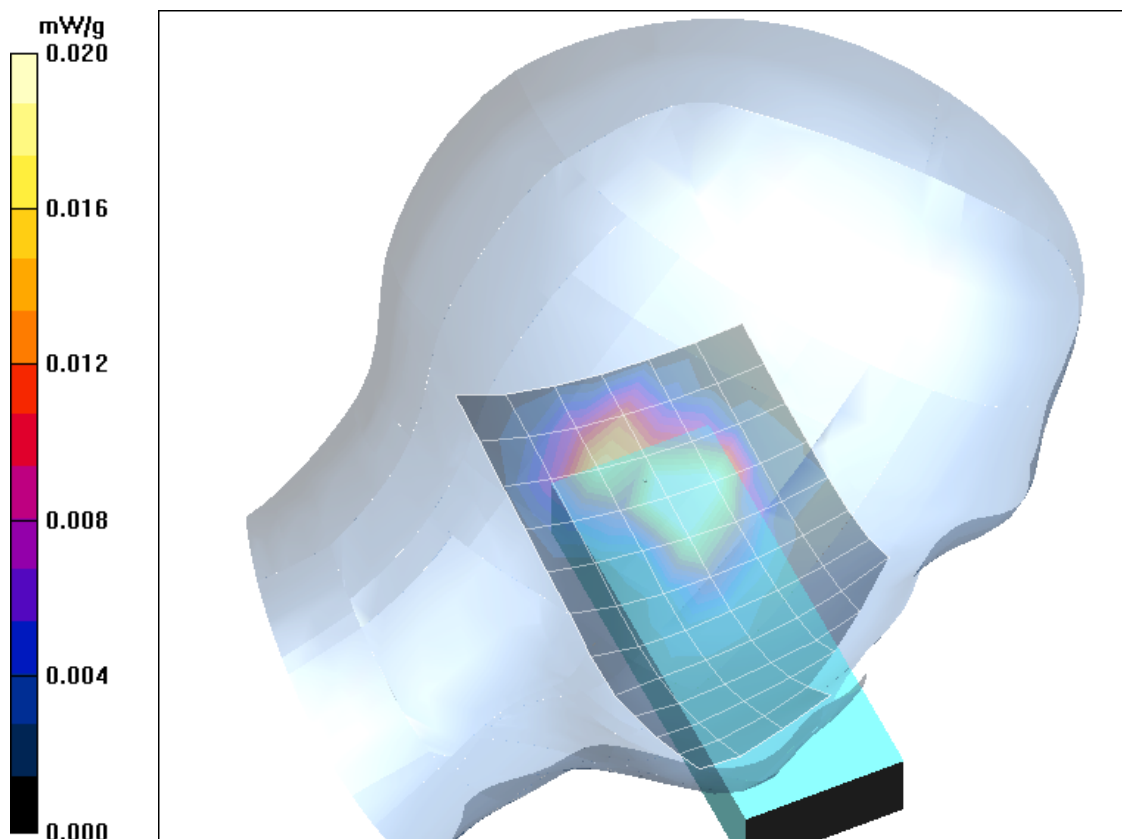


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390\\_us\\_bplm\\_2\\_ant1.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
Program Name: Tilted Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilted Left/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 2.75 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.067 W/kg

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.0069 mW/g**

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

Reference Value = 2.75 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.024 W/kg

**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.0078 mW/g**

Maximum value of SAR (measured) = 0.016 mW/g

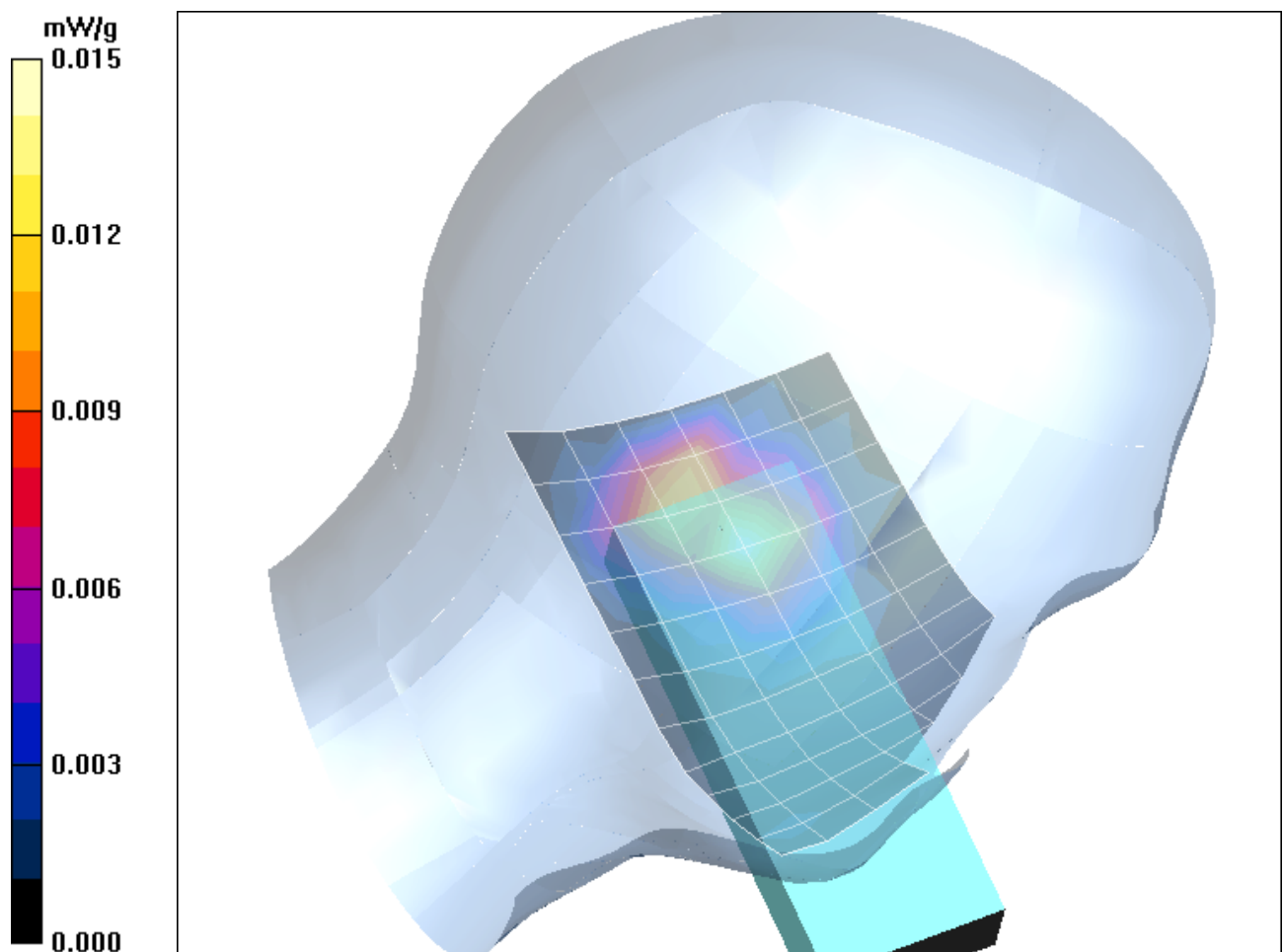


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390\\_us\\_bprm\\_1\\_ant1.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Cheek Right/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.025 mW/g

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

Reference Value = 3.00 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.048 W/kg

**SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.026 mW/g

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

Reference Value = 3.00 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.037 W/kg

**SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.011 mW/g**

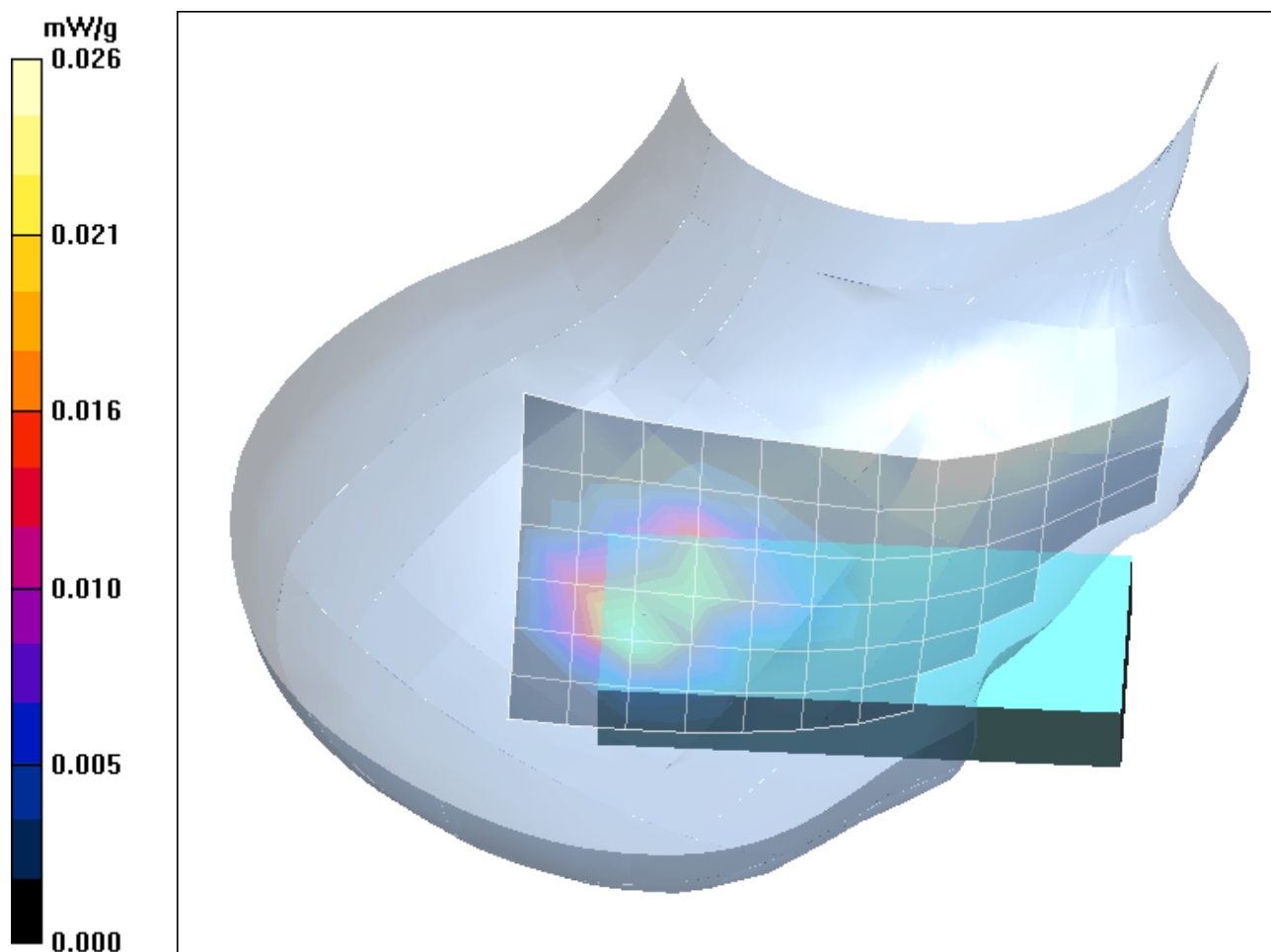


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390\\_us\\_bprm\\_2\\_ant1.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
Program Name: Tilted Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilted Right/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 2.74 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.041 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.0093 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g

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

Reference Value = 2.74 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.024 W/kg

**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.0072 mW/g**

Maximum value of SAR (measured) = 0.016 mW/g

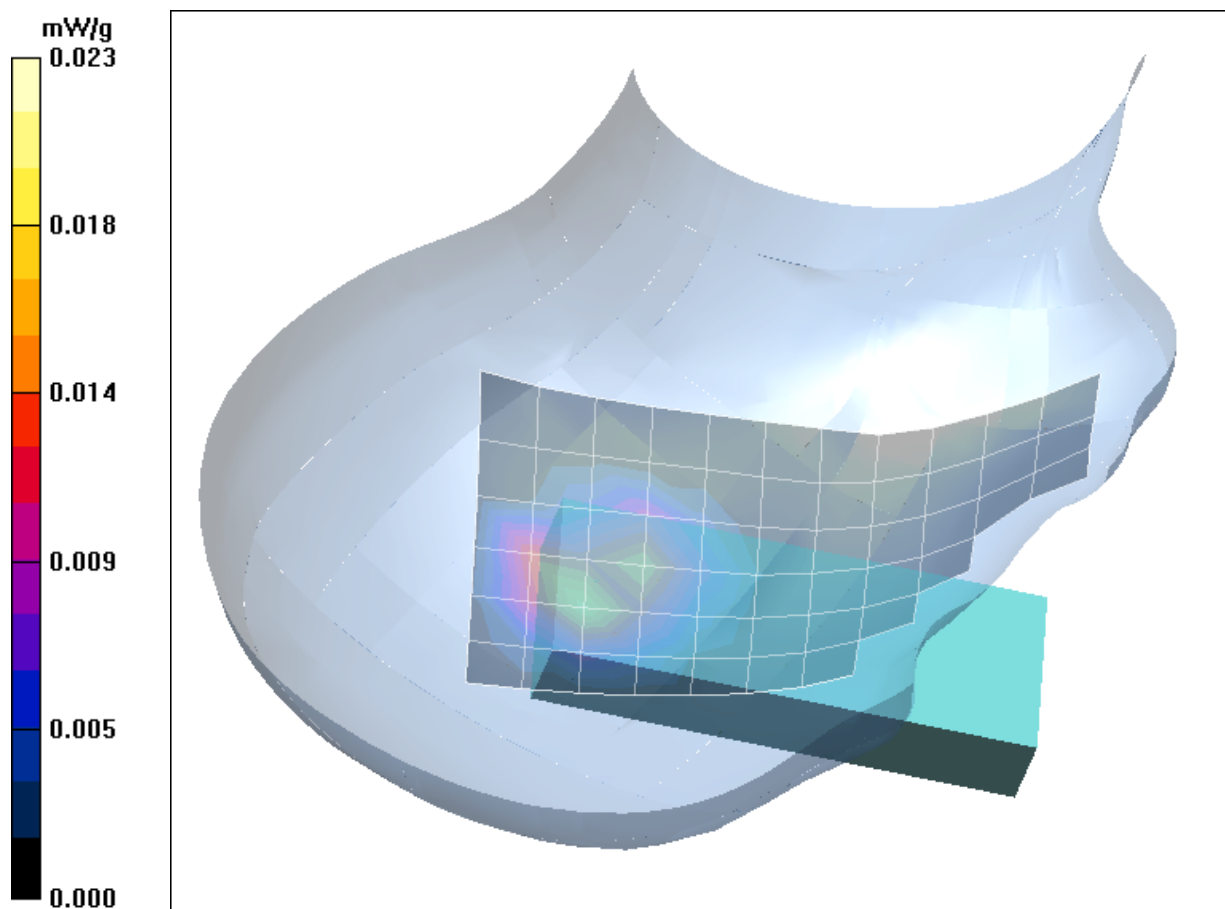


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C)

## 2 SAR Distribution Plots, Head Measurements, Antenna 2

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390\\_us\\_bplm\\_1\\_ant2.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT

Program Name: Cheek Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2007

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Cheek Left/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.028 mW/g

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

Reference Value = 4.30 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.049 W/kg

**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.016 mW/g**

Maximum value of SAR (measured) = 0.031 mW/g

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

Reference Value = 4.30 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.038 W/kg

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.027 mW/g

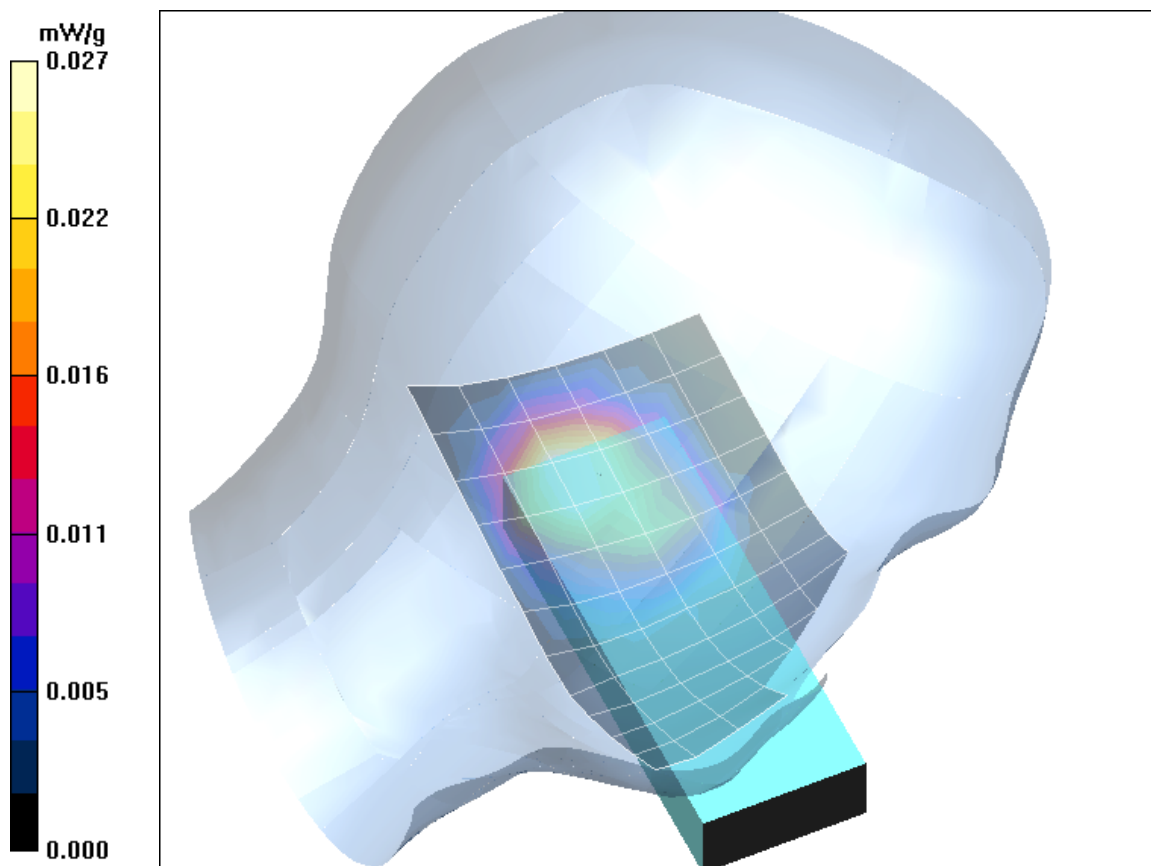


Fig. 5: SAR distribution for DECT US, channel 2, cheek position, left side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390 us bplm 2 ant2.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT

Program Name: Tilted Left

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2007

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilted Left/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.025 mW/g

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

Reference Value = 3.74 V/m; Power Drift = -0.058 dB

Peak SAR (extrapolated) = 0.038 W/kg

**SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.024 mW/g

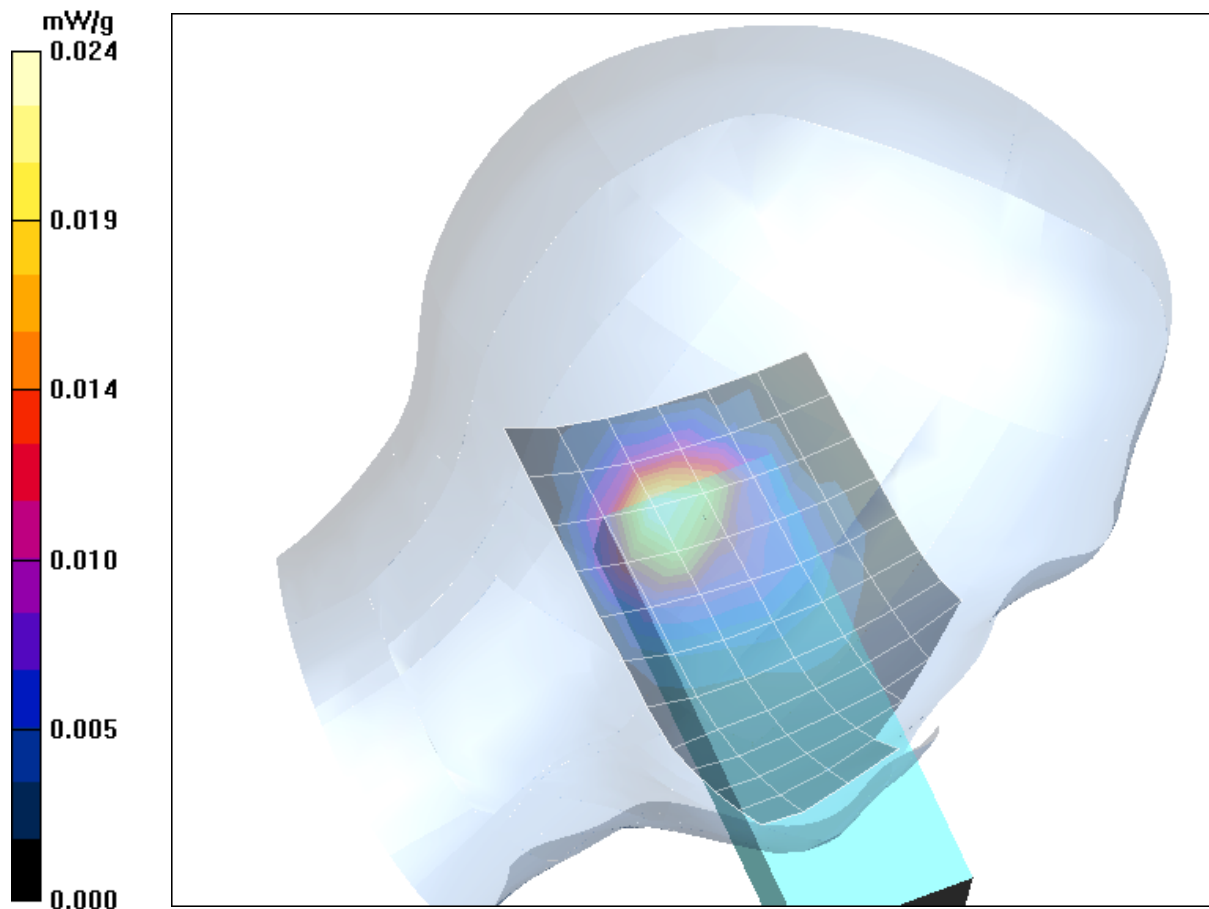


Fig. 6: SAR distribution for DECT US, channel 2, tilted position, left side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C).



Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390\\_us\\_bprm\\_1\\_ant2.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
Program Name: Cheek Right

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Cheek Right/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.044 mW/g

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

Reference Value = 4.58 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.081 W/kg

**SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.023 mW/g**

Maximum value of SAR (measured) = 0.048 mW/g

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

Reference Value = 4.58 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.061 W/kg

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.016 mW/g**

Maximum value of SAR (measured) = 0.040 mW/g

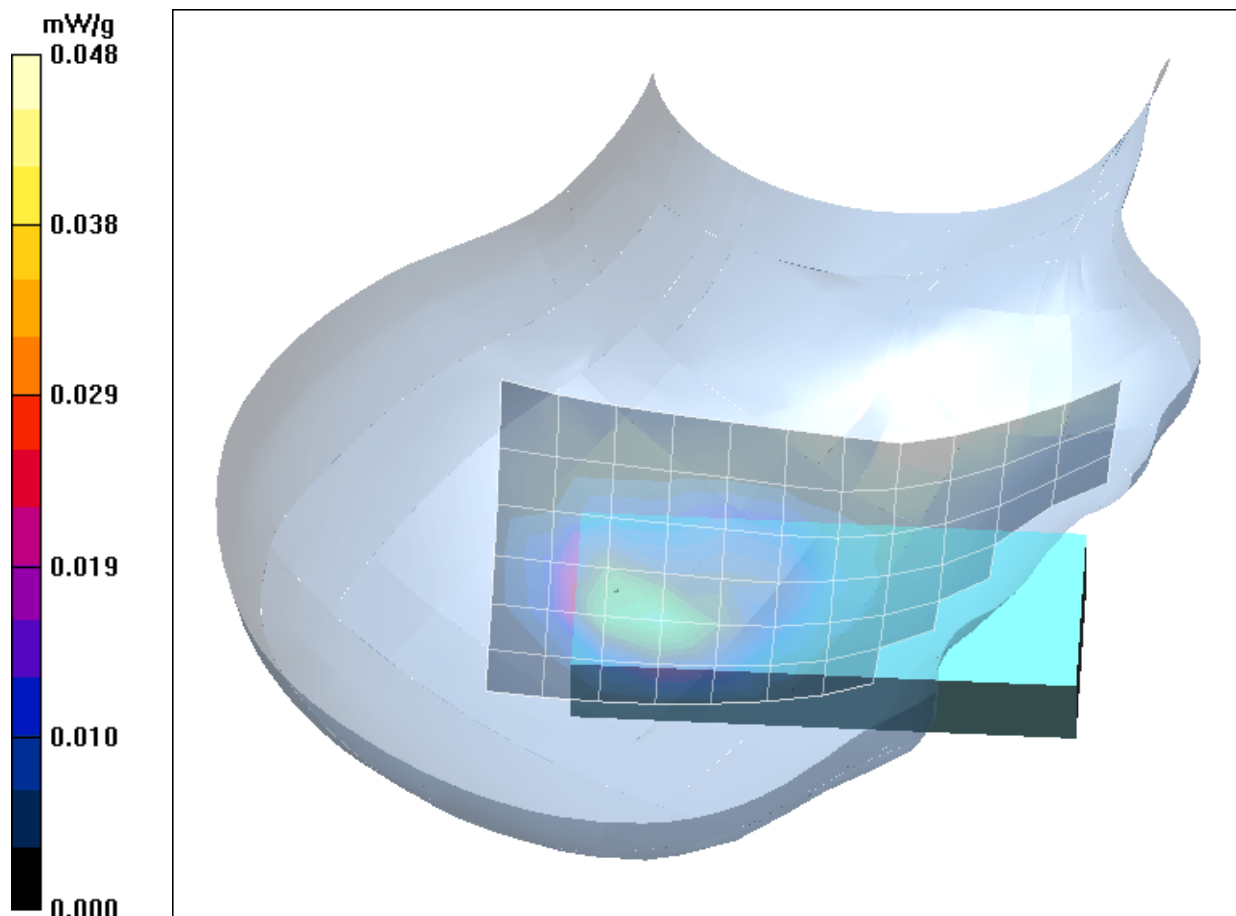


Fig. 7: SAR distribution for DECT US, channel 2, cheek position, right side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C).

**Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [DT390 us bprm 2 ant2.da4](#)**

**DUT: ascom; Type: DT390; Serial: T26103JJBT**

**Program Name: Tilted Right**

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.85, 7.85, 7.85); Calibrated: 18.09.2007

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

- Electronics: DAE4 Sn631; Calibrated: 17.09.2007

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilted Right/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.032 mW/g

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

Reference Value = 4.15 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 0.055 W/kg

**SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.034 mW/g

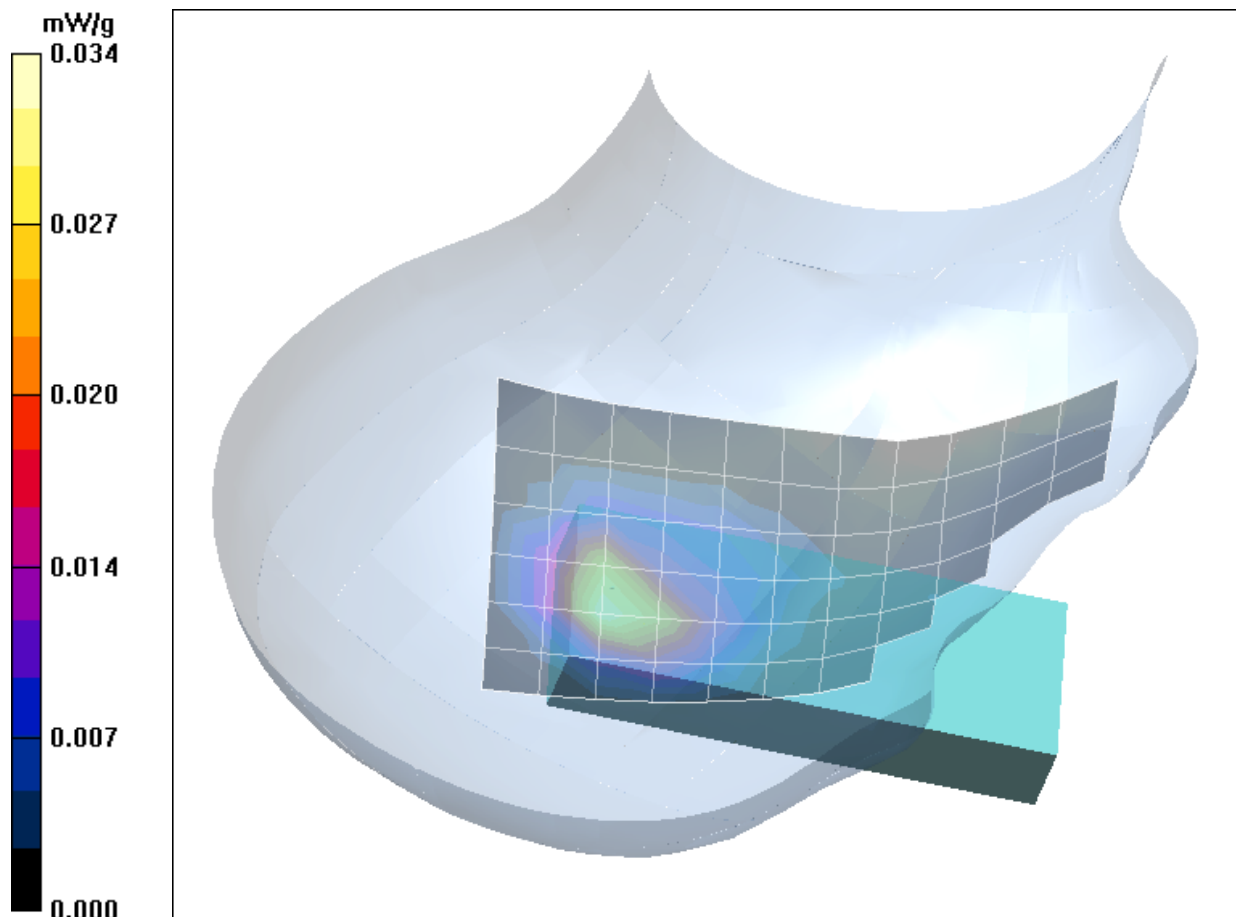


Fig. 8: SAR distribution for DECT US, channel 2, tilted position, right side of head (May 15, 2008; Ambient Temperature: 23.2°C; Liquid Temperature: 22.0°C)

### 3 SAR Distribution Plots, Body Measurements, Antenna 1

Test Laboratory: IMST GmbH, DASY Blue (I); File Name:  
[DT390 bphm 1 ant1 clip headset dspl up.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
 Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
 Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.67, 7.67, 7.67); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Body Worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.031 mW/g

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

Reference Value = 0.596 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.063 W/kg

**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.016 mW/g**

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

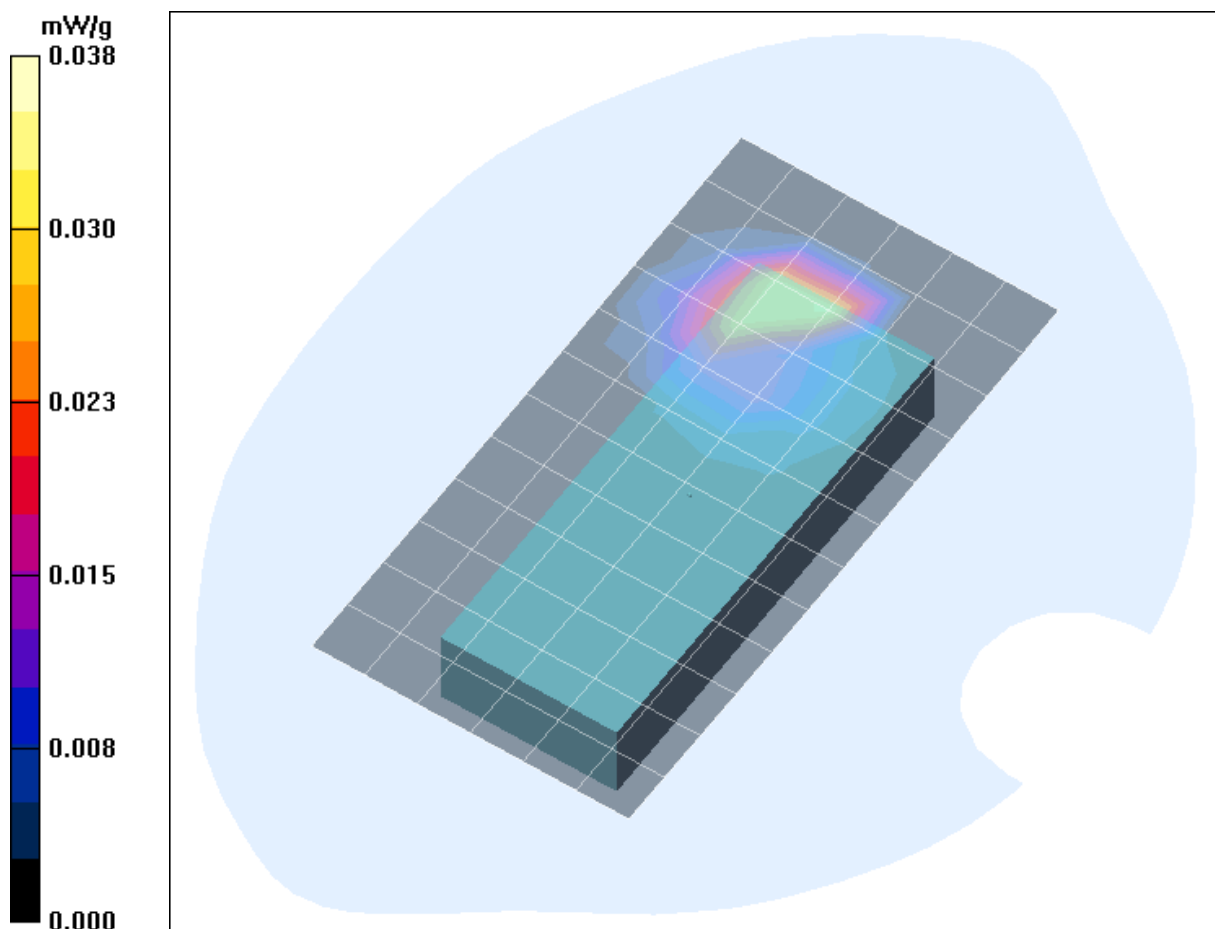


Fig. 9: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance (May 19, 2008; Ambient Temperature: 22.7° C; Liquid Temperature: 21.8° C).

## 4 SAR Distribution Plots, Body Measurements, Antenna 2

Test Laboratory: IMST GmbH, DASY Blue (I); File Name:  
[DT390 bphm 2 ant2 clip headset dspl up.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
 Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
 Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.67, 7.67, 7.67); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Body Worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.040 mW/g

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

Reference Value = 2.17 V/m; Power Drift = 0.094 dB

Peak SAR (extrapolated) = 0.072 W/kg

**SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.041 mW/g

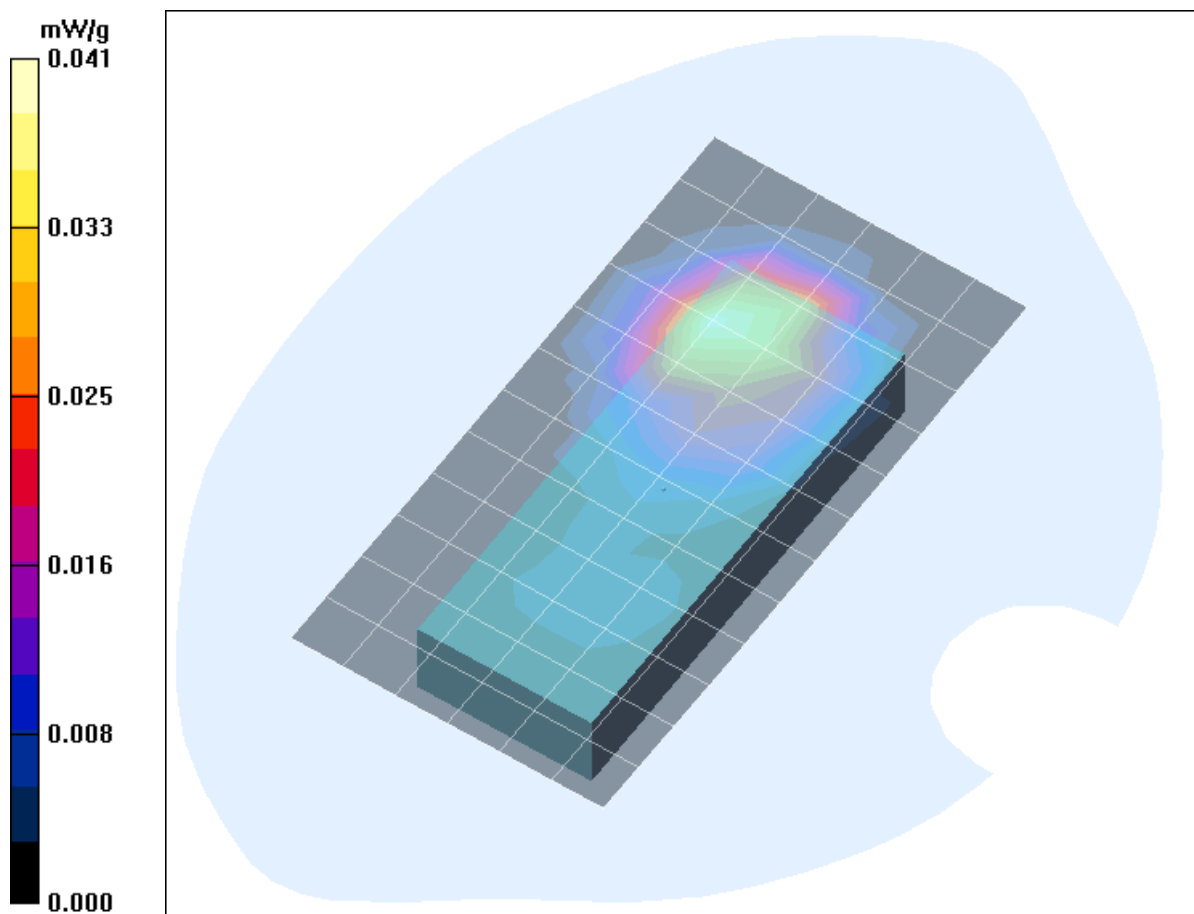


Fig. 10: SAR distribution for DECT US, channel 2, body worn configuration, display towards the phantom, with headset and 0 mm distance (May 19, 2008; Ambient Temperature: 22.7° C; Liquid Temperature: 21.8° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name:  
[DT390 bphm 3 ant2 clip headset dspl DOWN.da4](#)

DUT: ascom; Type: DT390; Serial: T26103JJBT  
 Program Name: Body Worn

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24  
 Medium parameters used:  $f = 1924.99$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.67, 7.67, 7.67); Calibrated: 18.09.2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2007
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Body Worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 1.35 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 0.027 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00975 mW/g**

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

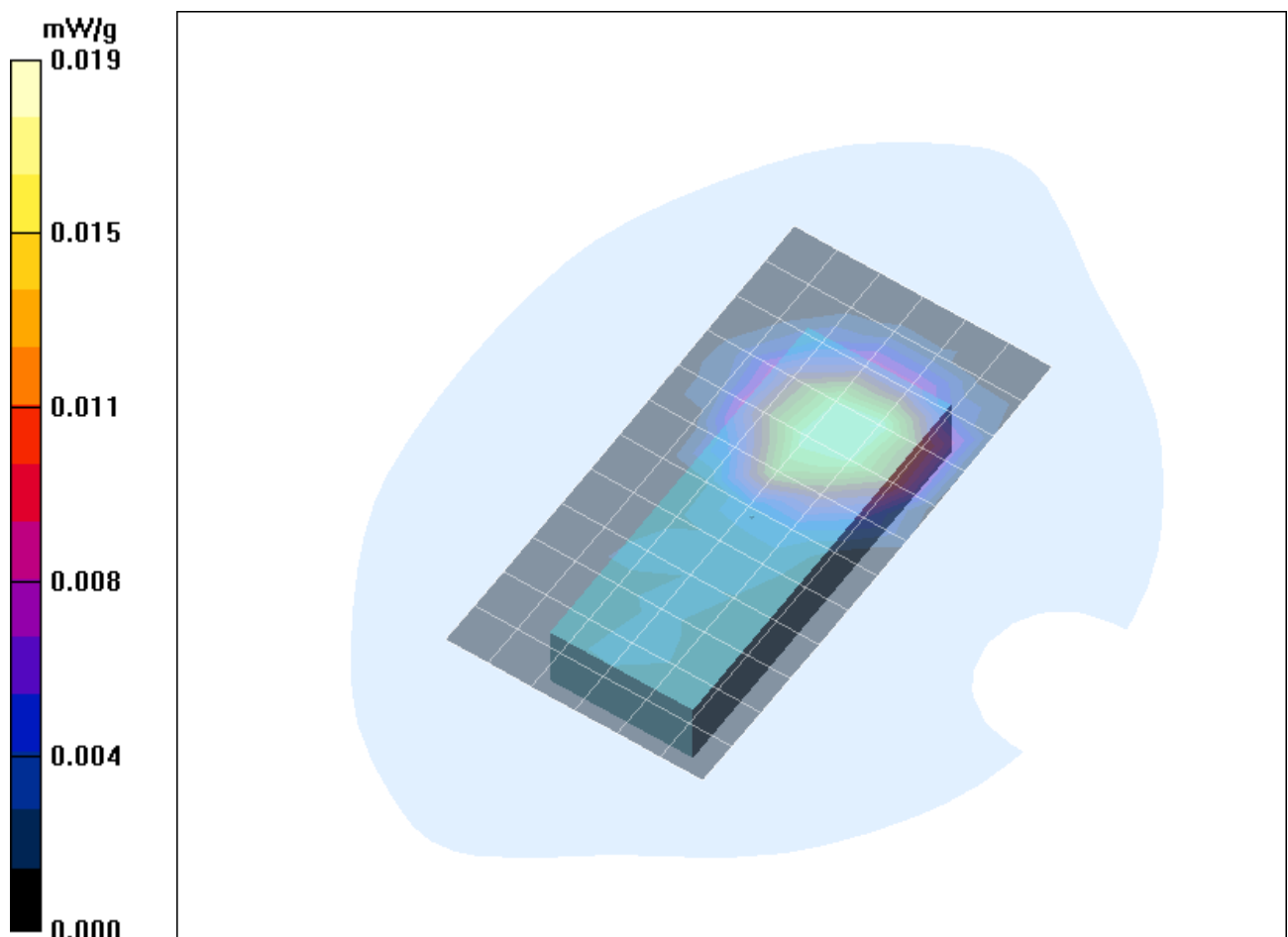


Fig. 11: SAR distribution for DECT US, channel 2, body worn configuration, display towards the ground, with headset and 0 mm distance (May 19, 2008; Ambient Temperature: 22.7° C; Liquid Temperature: 21.8° C).

### 5 SAR z-axis scans (Validation)

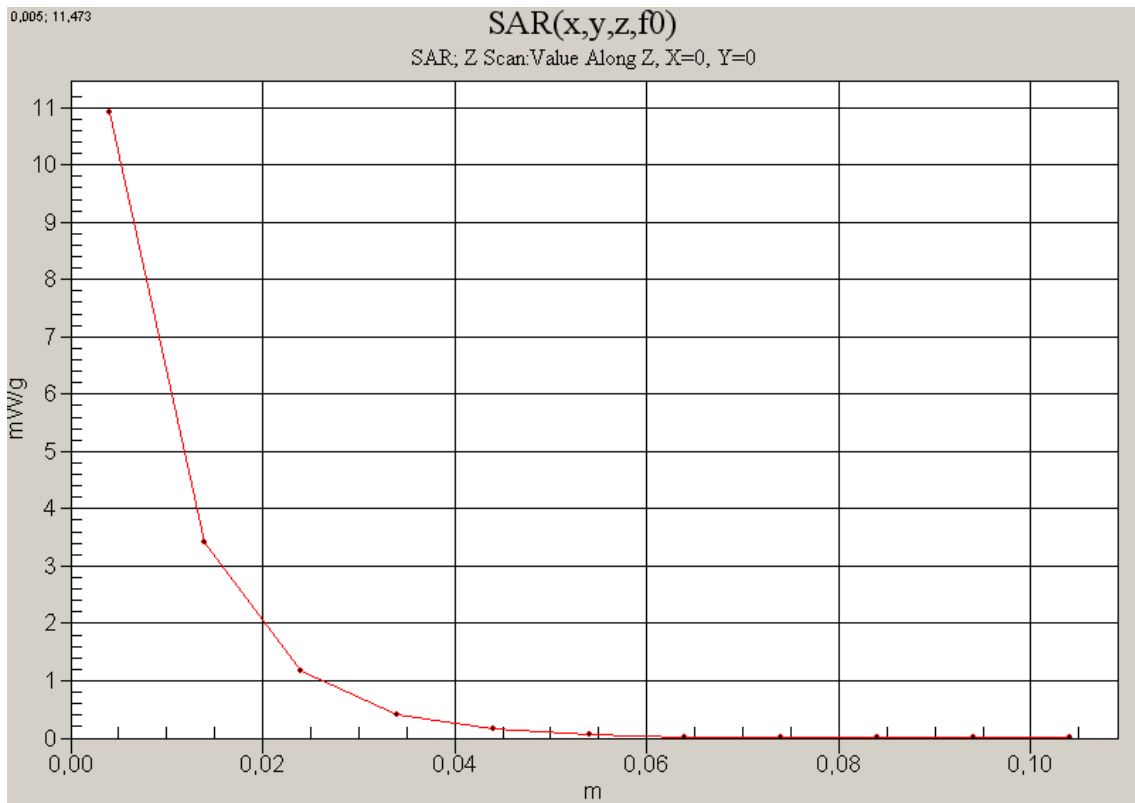


Fig. 12: SAR versus liquid depth, 1900 MHz, head (May 15, 2008; Ambient Temperature: 23.0° C; Liquid Temperature : 21.9° C).

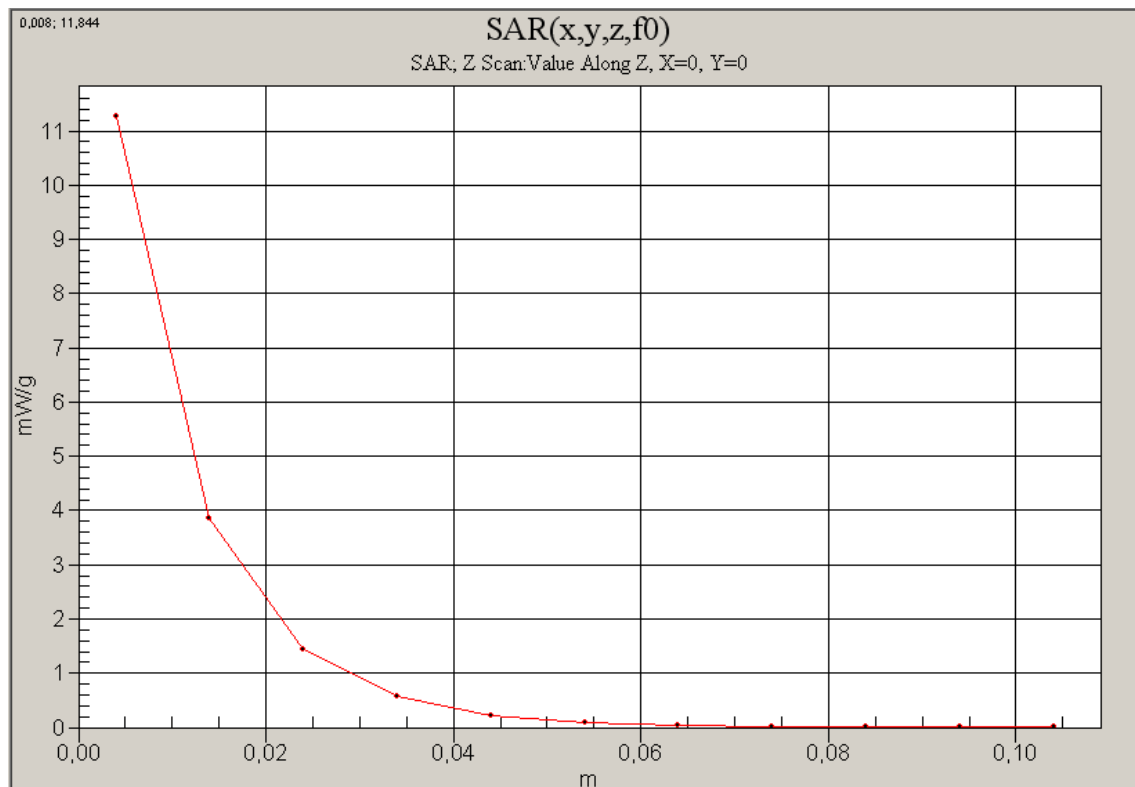


Fig. 13: SAR versus liquid depth, 1900 MHz, body (May 19, 2008; Ambient Temperature: 22.7° C; Liquid Temperature : 21.8° C).

## 6 SAR z-axis scans (Measurements)

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

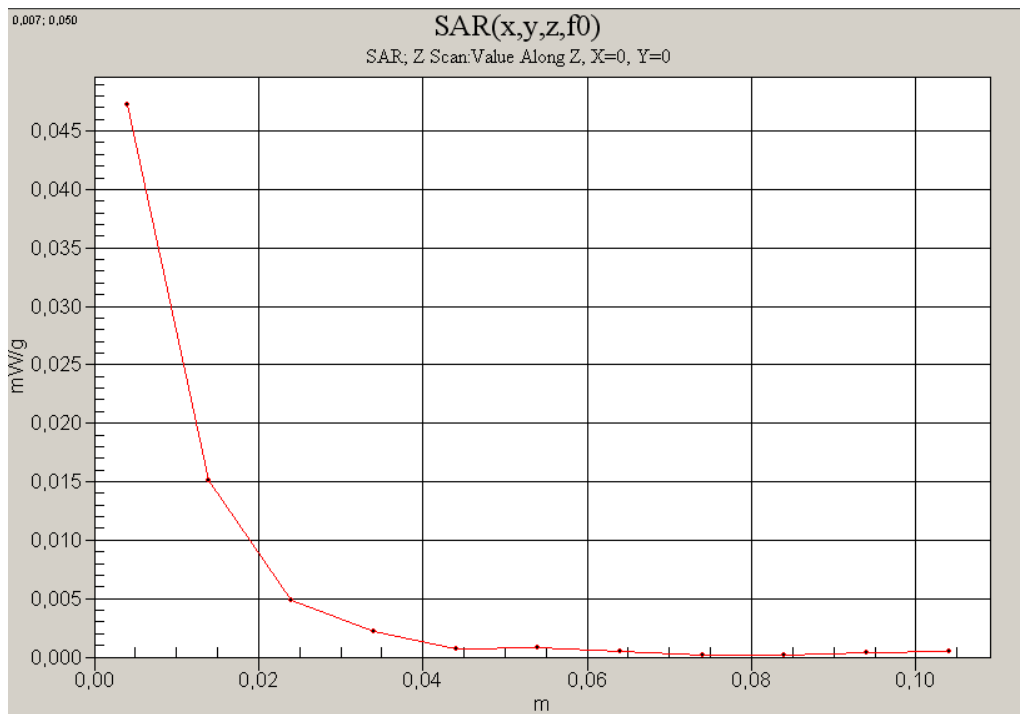


Fig. 14: SAR versus liquid depth, head: DECT US, channel 2, cheek position, right side of head, antenna 2 (May 15, 2008; Ambient Temperature: 23.2° C; Liquid Temperature : 22.0° C).

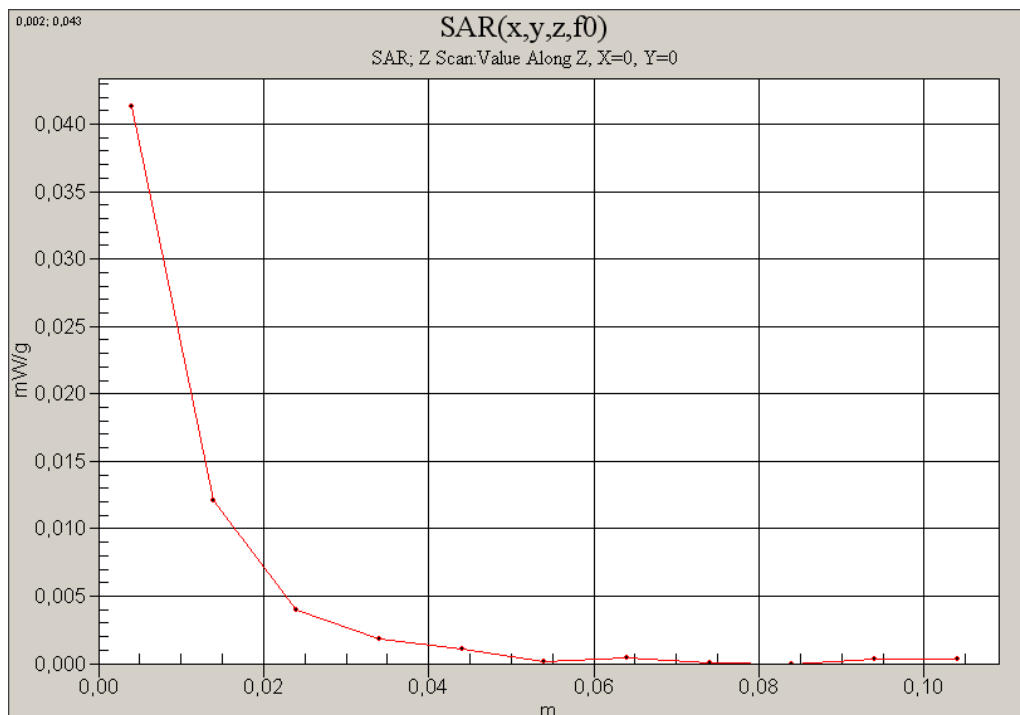


Fig. 15: SAR versus liquid depth, body: DECT US, display towards the phantom, channel 2, headset and 0 mm distance, antenna 2 (May 19, 2008; Ambient Temperature: 22.7° C; Liquid Temperature: 21.8° C).