
Appendix for the Report

Dosimetric Assessment of the CeoTronics GateCom Compact (FCC ID: L52CT-DECTGATECOM)

According to the FCC Requirements

SAR Distribution Plots

April 17, 2008
IMST GmbH
Carl-Friedrich-Gauß-Str. 2
D-47475 Kamp-Lintfort

Customer
PHOENIX TESTLAB GmbH
Königswinkel 10
D-32825 Blomberg

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, BODY MEASUREMENTS	3
2	SAR Z-AXIS SCANS (VALIDATION)	8
3	SAR Z-AXIS SCANS (MEASUREMENTS).....	8

1 SAR Distribution Plots, Body Measurements

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [GateCom Compact bphm_1.da4](#)

DUT: CeoTronics; Type: GateCom Compact; Serial: N/A

Program Name: Body Worn

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.002 mW/g

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

Reference Value = 0.995 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.00173 mW/g; SAR(10 g) = 0.00085 mW/g

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

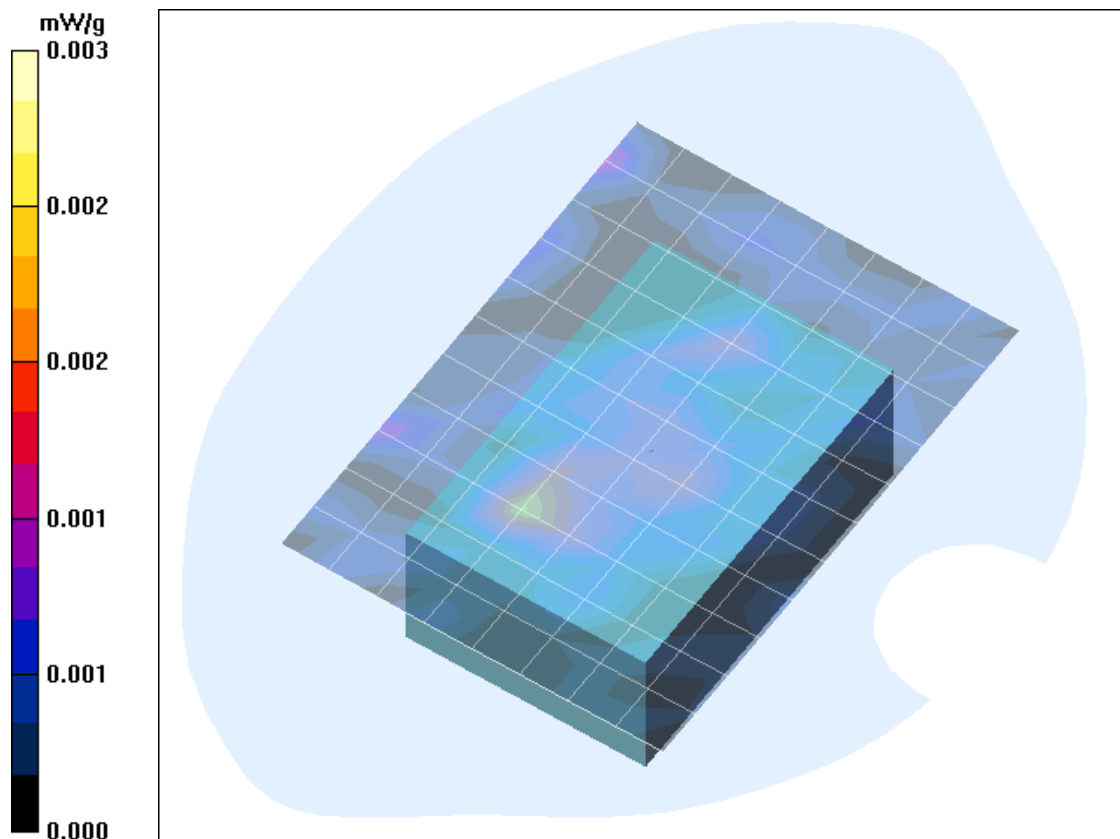


Fig. 1: SAR distribution for DECT US, channel 2, position 1, 0 mm distance (April 14, 2008; Ambient Temperature: 20.6° C; Liquid Temperature: 20.0° C).

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

DUT: CeoTronics; Type: GateCom Compact; Serial: N/A

Program Name: Body Worn

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.008 mW/g

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

Reference Value = 1.71 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 0.024 W/kg

SAR(1 g) = 0.00986 mW/g; SAR(10 g) = 0.00464 mW/g

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

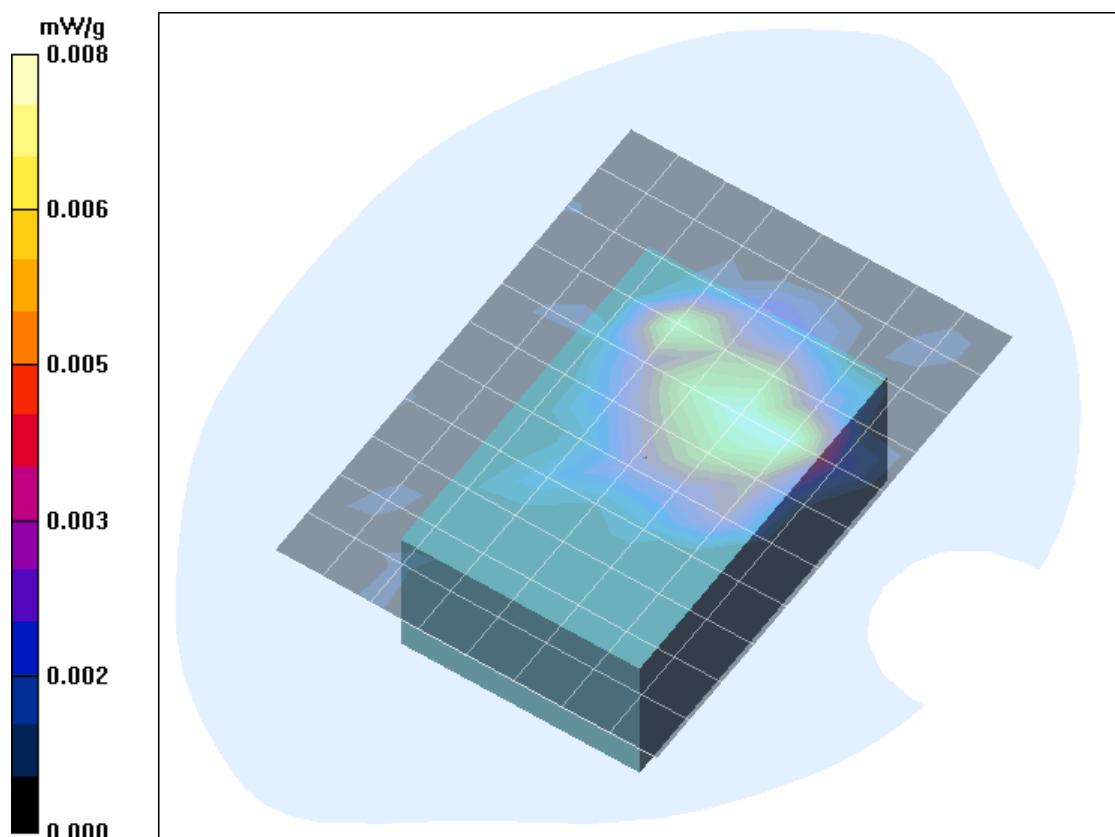


Fig. 2: SAR distribution for DECT US, channel 2, position 2, 0 mm distance (April 14, 2008; Ambient Temperature: 20.6° C; Liquid Temperature: 20.0° C).

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

DUT: CeoTronics; Type: GateCom Compact; Serial: N/A

Program Name: Body Worn

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (8x12x1): 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 = 0.671 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00311 mW/g; SAR(10 g) = 0.00109 mW/g

Maximum value of SAR (measured) = 0.006 mW/g

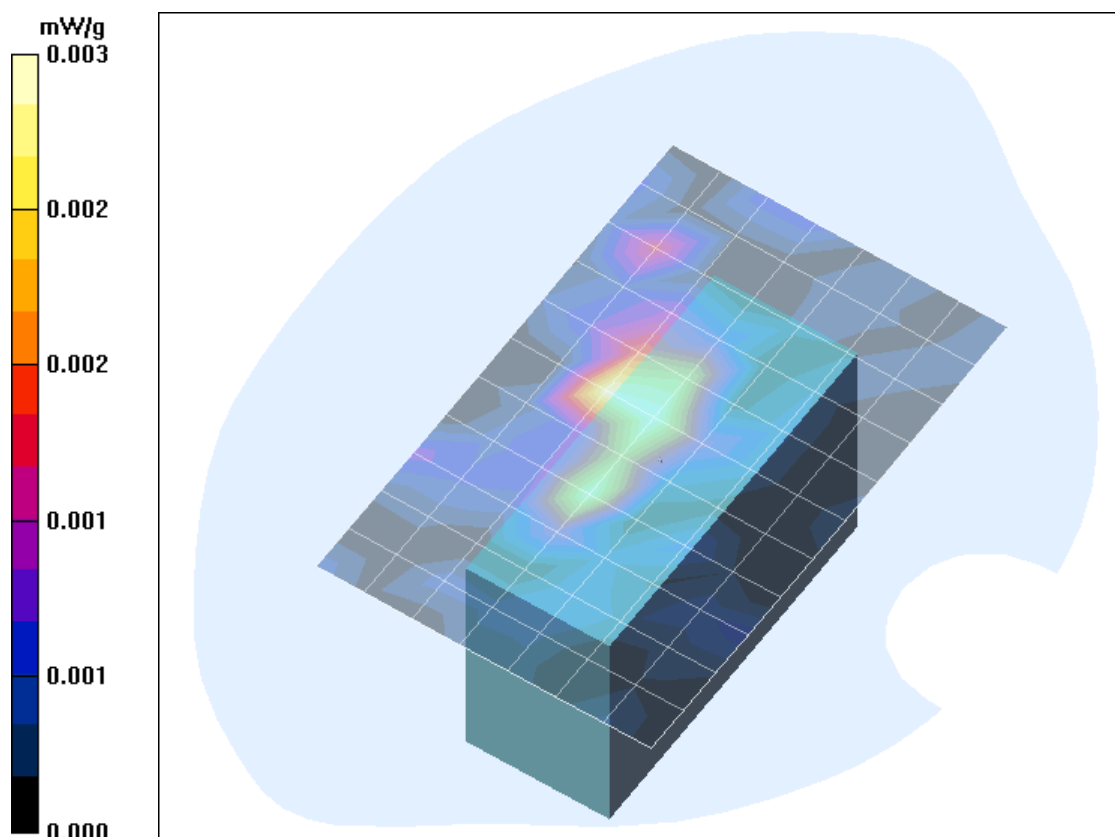


Fig. 3: SAR distribution for DECT US, channel 2, position 3, 0 mm distance (April 14, 2008; Ambient Temperature: 20.6° C; Liquid Temperature: 20.0° C).

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

DUT: CeoTronics; Type: GateCom Compact; Serial: N/A

Program Name: Body Worn

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (8x12x1): 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 = 0.533 V/m; Power Drift = 1.86 dB

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = n.a.; SAR(10 g) = n.a. mW/g

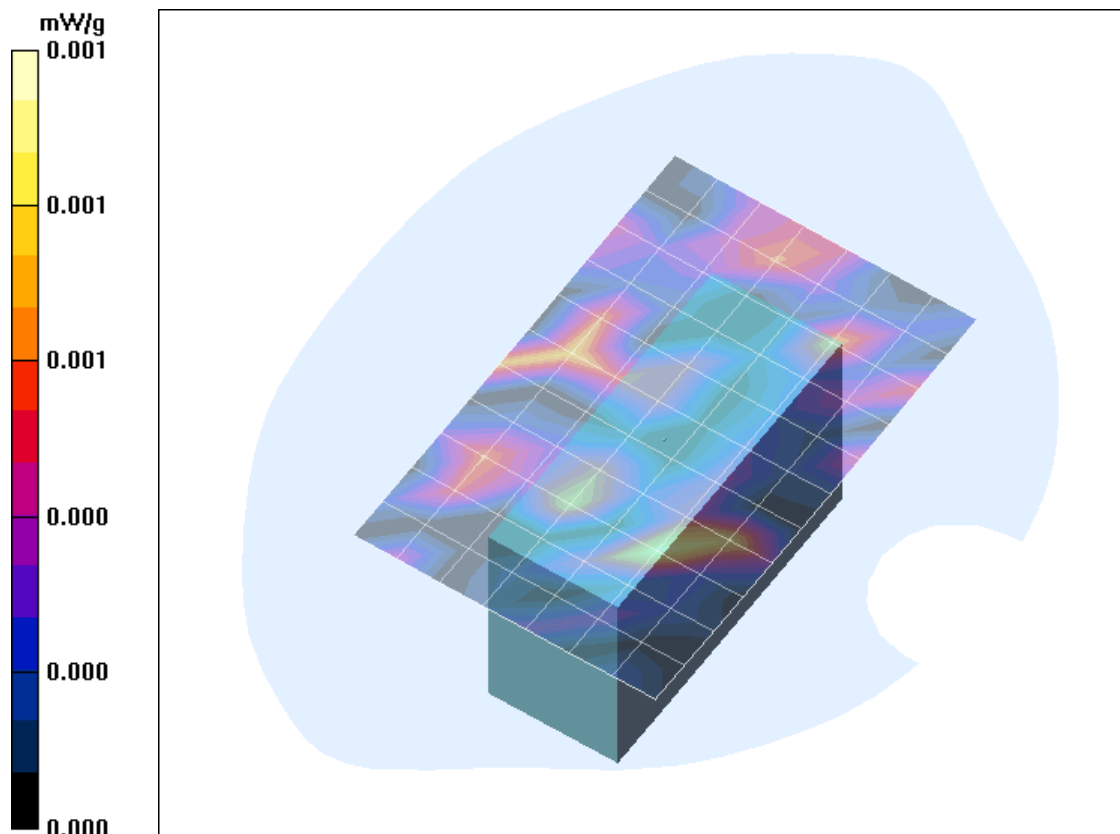


Fig. 4: SAR distribution for DECT US, channel 2, position 4, 0 mm distance (April 14, 2008; Ambient Temperature: 20.6° C; Liquid Temperature: 20.0° C).

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

DUT: CeoTronics; Type: GateCom Compact; Serial: N/A

Program Name: Body Worn

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Worn/Area Scan (9x12x1): 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 = 1.26 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.028 W/kg

SAR(1 g) = 0.00432 mW/g; SAR(10 g) = 0.00183 mW/g

Maximum value of SAR (measured) = 0.007 mW/g

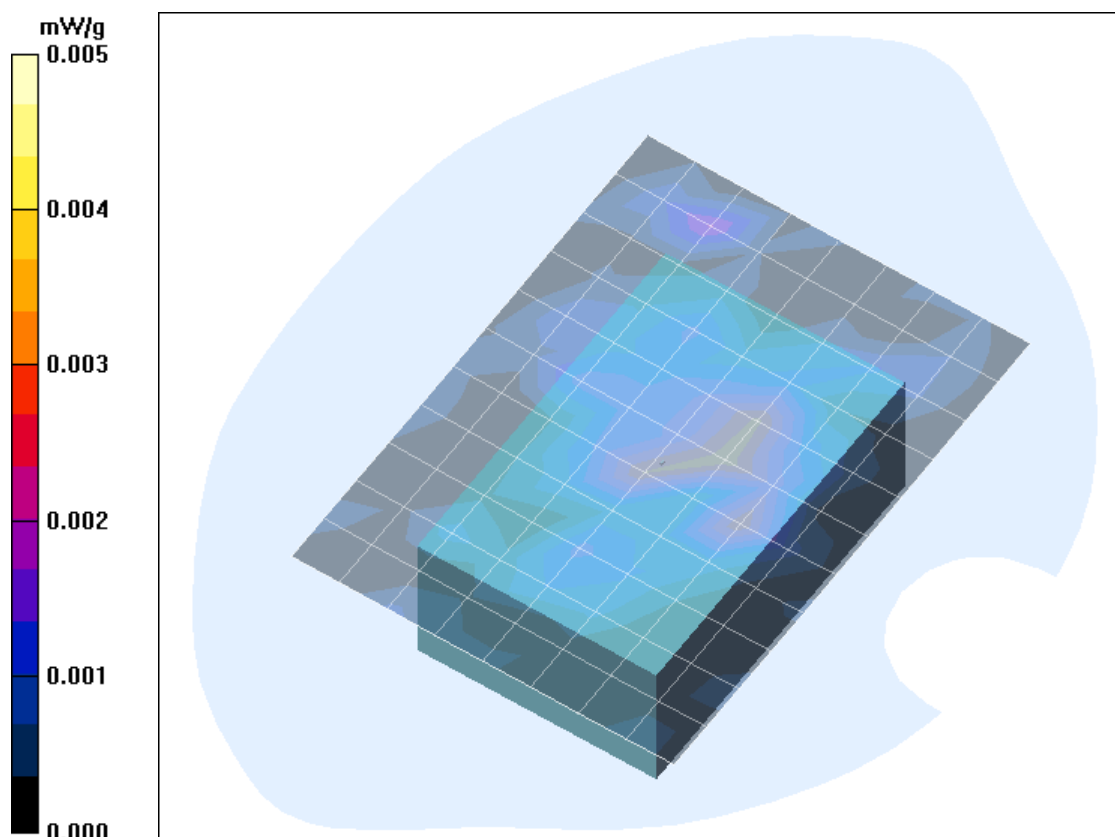


Fig. 5: SAR distribution for DECT US, channel 2, position 2 with case, 0 mm distance, (April 14, 2008; Ambient Temperature: 20.6° C; Liquid Temperature: 20.0° C).

2 SAR z-axis scans (Validation)

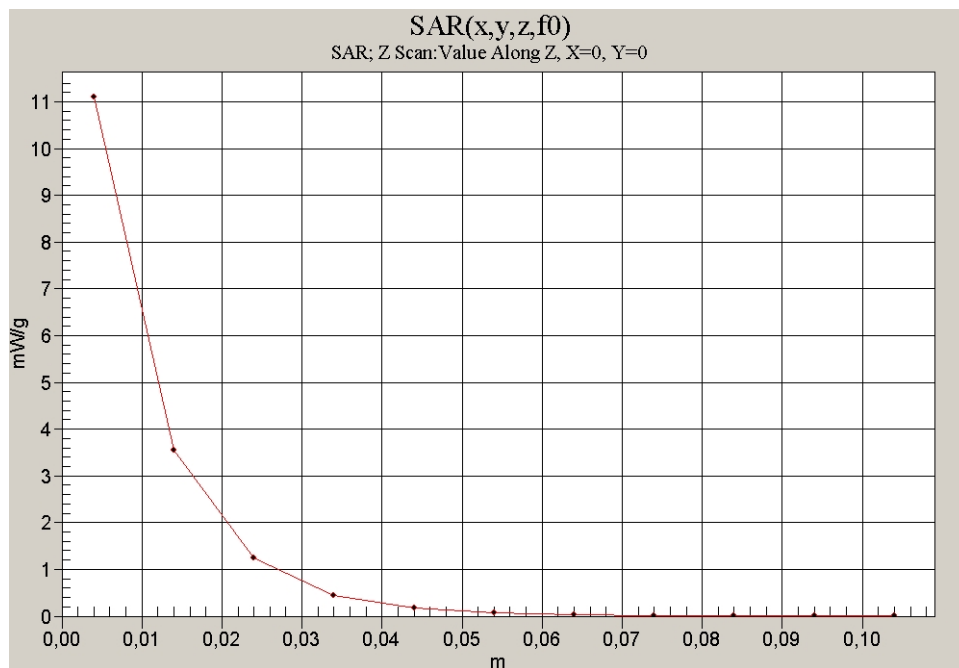


Fig. 6: SAR versus liquid depth, 1900 MHz, body (April 14, 2008; Ambient Temperature: 20.7° C; Liquid Temperature : 20.0° C).

3 SAR z-axis scans (Measurements)

The following picture shows the plot of SAR versus liquid depth for the worst case value.

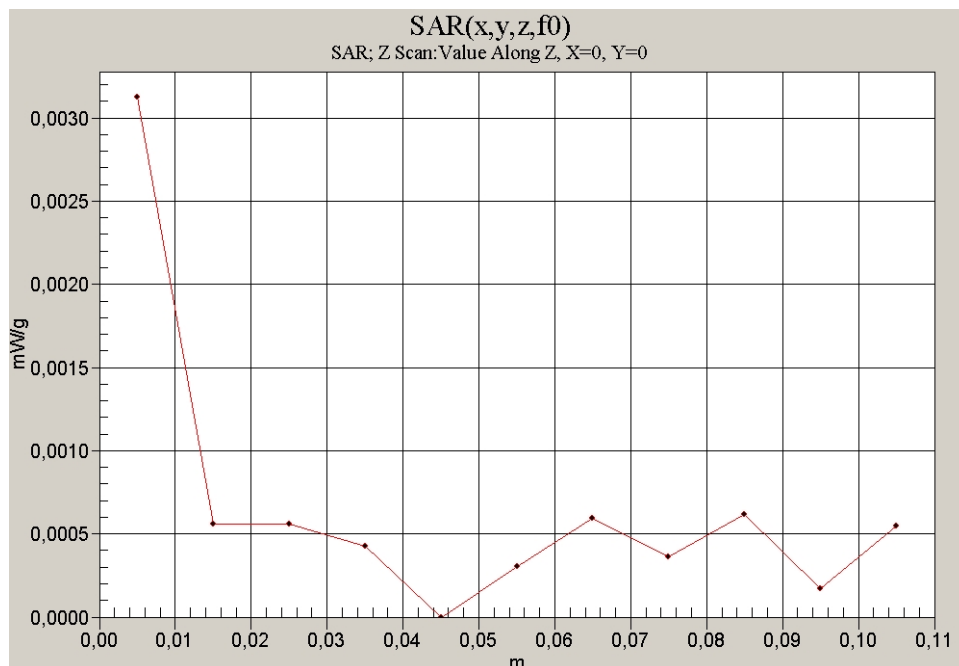


Fig. 7: SAR versus liquid depth, body: DECT US, channel 2, Position 2, 0 mm distance (April 14, 2008; Ambient Temperature: 20.6° C; Liquid Temperature: 20.0° C).