
Appendix for the Report

Dosimetric Assessment of the CT-DECT Base GateCom Compact (FCC ID: L52CT-DECTHeadset)

According to the FCC Requirements

SAR Distribution Plots

April 18, 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.
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approval of the testing laboratory.

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1 SAR Distribution Plots, Head Measurements

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [CT-Dect Base bplm 1.da4](#)

DUT: CeoTronics; Type: CT-Dect Base; Serial: N/A

Program Name: Cheek Left

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

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

Cheek Left/Area Scan (11x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.004 mW/g

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

Reference Value = 0.866 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 0.024 W/kg

SAR(1 g) = 0.00441 mW/g; SAR(10 g) = 0.00129 mW/g

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

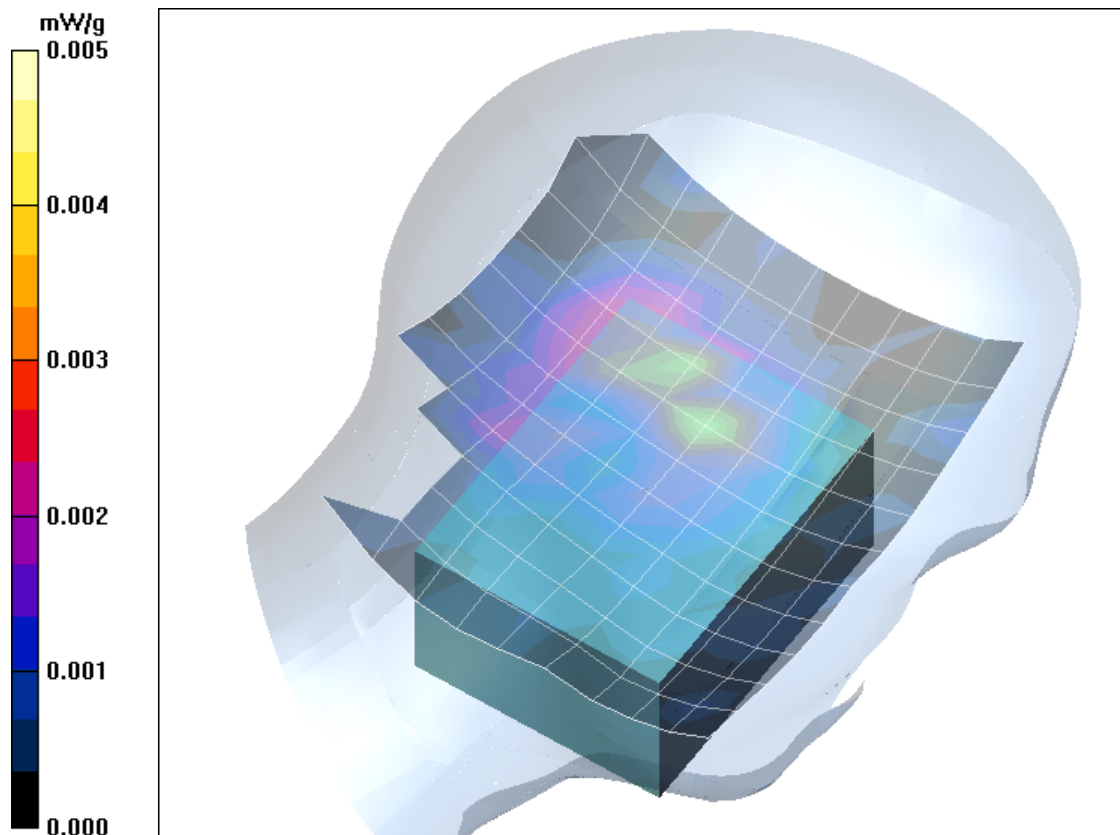


Fig. 1: SAR distribution for DECT US, channel 2, cheek left
(April 16, 2008; Ambient Temperature: 20.9° C; Liquid Temperature: 20.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [CT-Dect Base bprm 1.da4](#)

DUT: CeoTronics; **Type:** CT-Dect Base; **Serial:** N/A

Program Name: Cheek Right

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

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

Cheek Right/Area Scan (11x12x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 0.522 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = 0.00015 mW/g; SAR(10 g) = 0.00004 mW/g

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

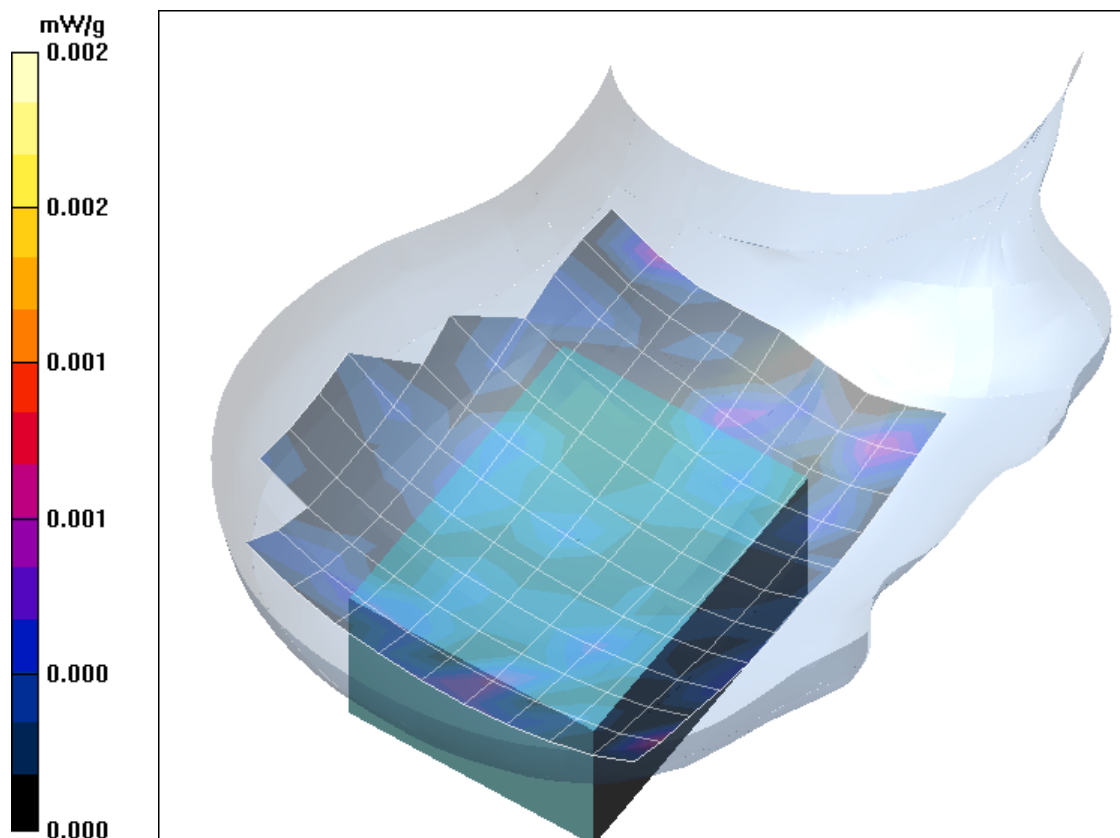


Fig. 2: SAR distribution for DECT US, channel 2, cheek right
(April 16, 2008; Ambient Temperature: 20.9° C; Liquid Temperature: 20.2° C).

2 SAR z-axis scans (Validation)

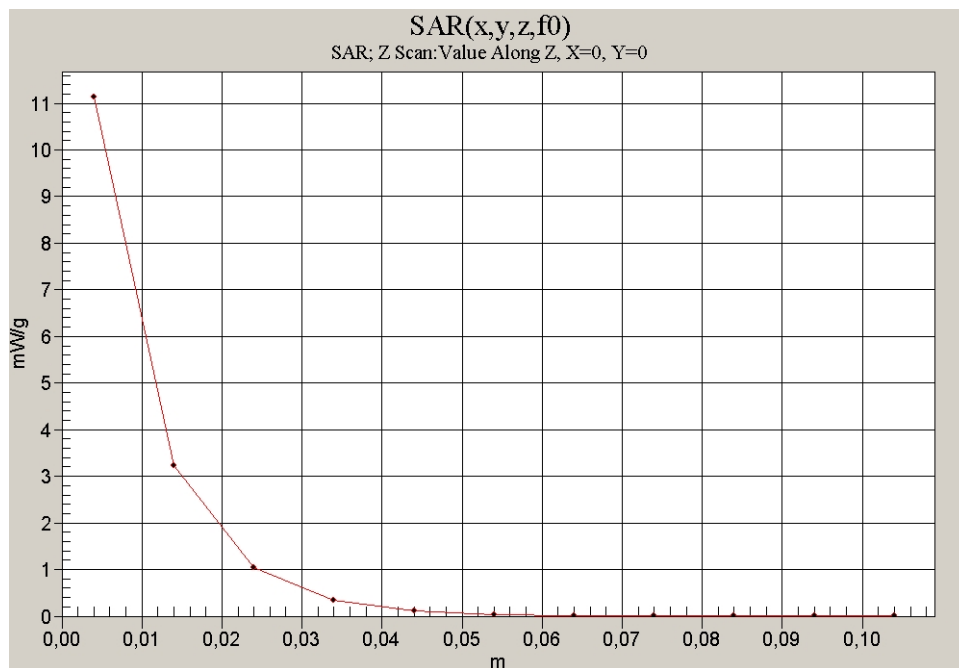


Fig. 3: SAR versus liquid depth, 1900 MHz, head
(April 16, 2008; Ambient Temperature: 20.8° C; Liquid Temperature : 20.2° C).

3 SAR z-axis scans (Measurements)

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

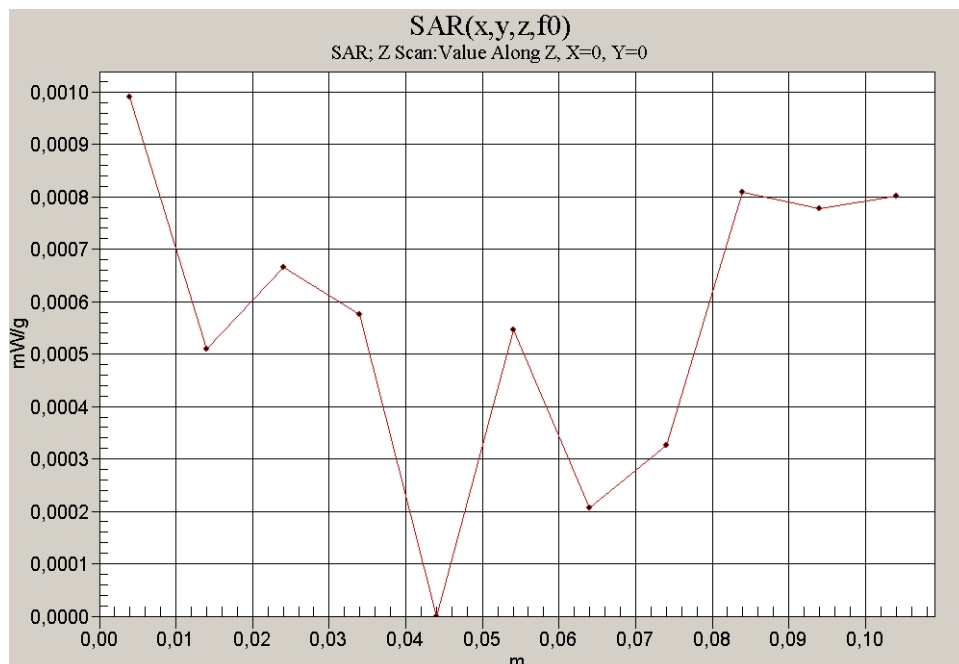


Fig. 4: SAR versus liquid depth, head: DECT US, channel 2, cheek left
(April 16, 2008; Ambient Temperature: 20.9° C; Liquid Temperature: 20.2° C).