

Appendix for the SAR Test Report

Dosimetric Assessment of the Cordless DECT Headset D 10 HS from Sennheiser Communications (FCC ID: DMOCDDHGG) (IC: 2099A-D10HS)

According to the FCC Requirements SAR Distribution Plots

November 10, 2014

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

Customer
Sennheiser Communications A/S
Industriparken 27
DK-2750 Ballerup
Denmark

The test results only relate to the items tested.

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1 SAR Distribution Plots

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [D10HS_ydhm_1_ant1.da4](#)

DUT: Sennheiser; Type: D 10 HS; Serial: 506421

Program Name: US DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:15

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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) = 0.030 mW/g

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

Reference Value = 1.51 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.055 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.035 mW/g

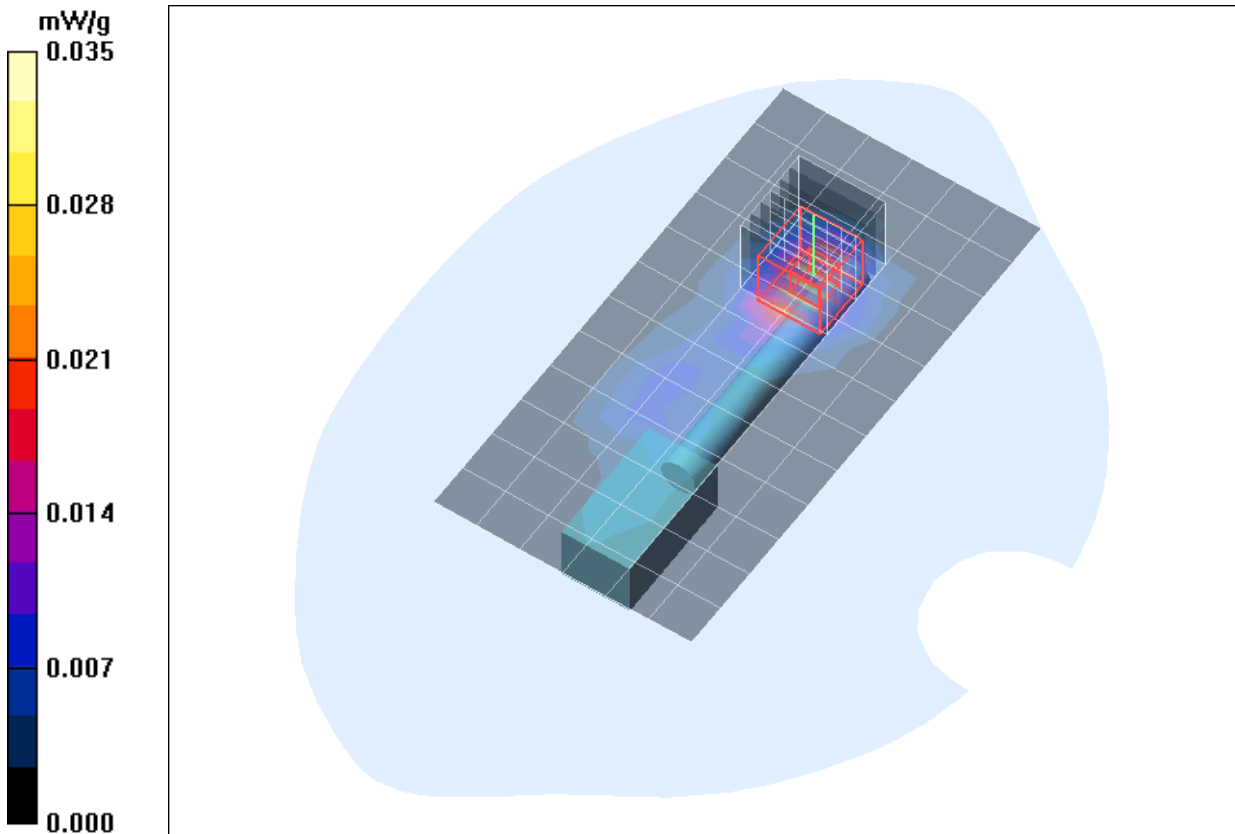


Fig. 1: SAR distribution for Sennheiser Communications D 10 HS, head configuration below the flat part of SAM phantom, ear hook wearing style, test pos. 1, antenna 1, mid channel.

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [D10HS_ydhm_2_ant1.da4](#)

DUT: Sennheiser; **Type:** D 10 HS; **Serial:** 506421

Program Name: US DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:15

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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) = 0.028 mW/g

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

Reference Value = 1.22 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.033 mW/g

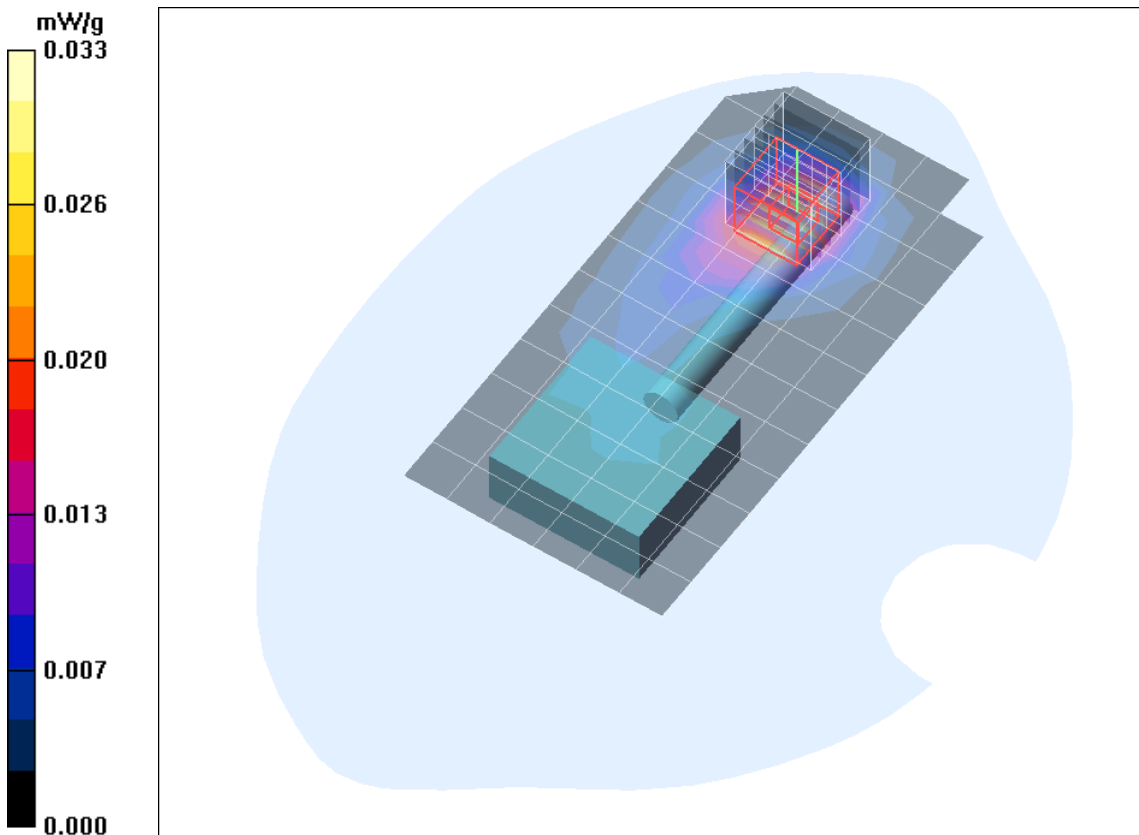


Fig. 2: SAR distribution for Sennheiser Communications D 10 HS, head configuration below the flat part of SAM phantom, headband wearing style, test pos. 2, antenna 1, mid channel.

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [D10HS_ydhm_1_ant2.da4](#)

DUT: Sennheiser; **Type:** D 10 HS; **Serial:** 506421

Program Name: US DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:15

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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 = 0.376 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.010 W/kg

SAR(1 g) = 0.00198 mW/g; SAR(10 g) = 0.000654 mW/g

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

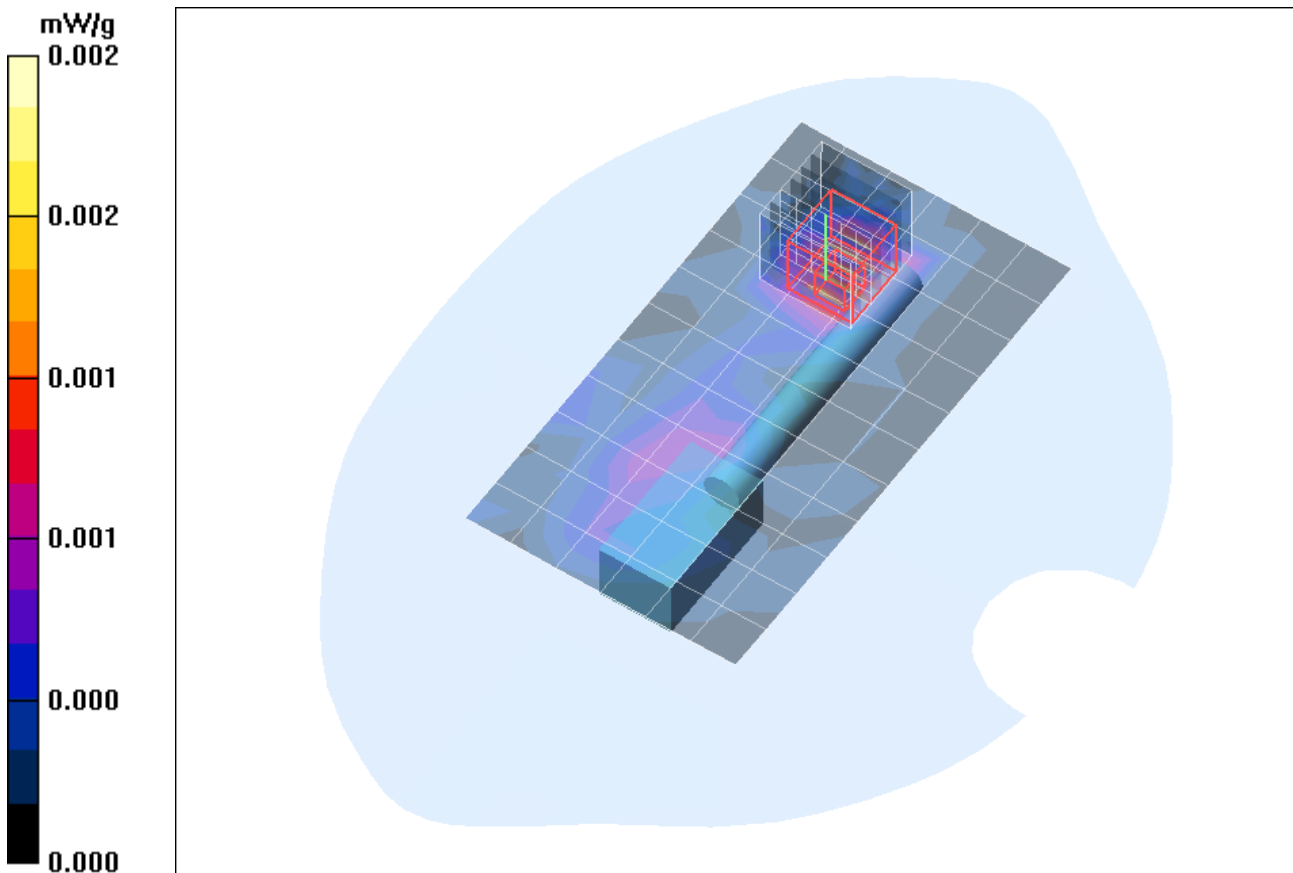


Fig. 3: SAR distribution for Sennheiser Communications D 10 HS, head configuration below the flat part of SAM phantom, ear hook wearing style, test pos. 1, antenna 2, mid channel.

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [D10HS_ydhm_2_ant2.da4](#)

DUT: Sennheiser; **Type:** D 10 HS; **Serial:** 506421

Program Name: US DECT

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:15

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5, 5, 5); Calibrated: 28.01.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- 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) = 0.001 mW/g

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

Reference Value = 0.372 V/m; Power Drift = 0.173 dB

Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00114 mW/g; SAR(10 g) = 0.000455 mW/g

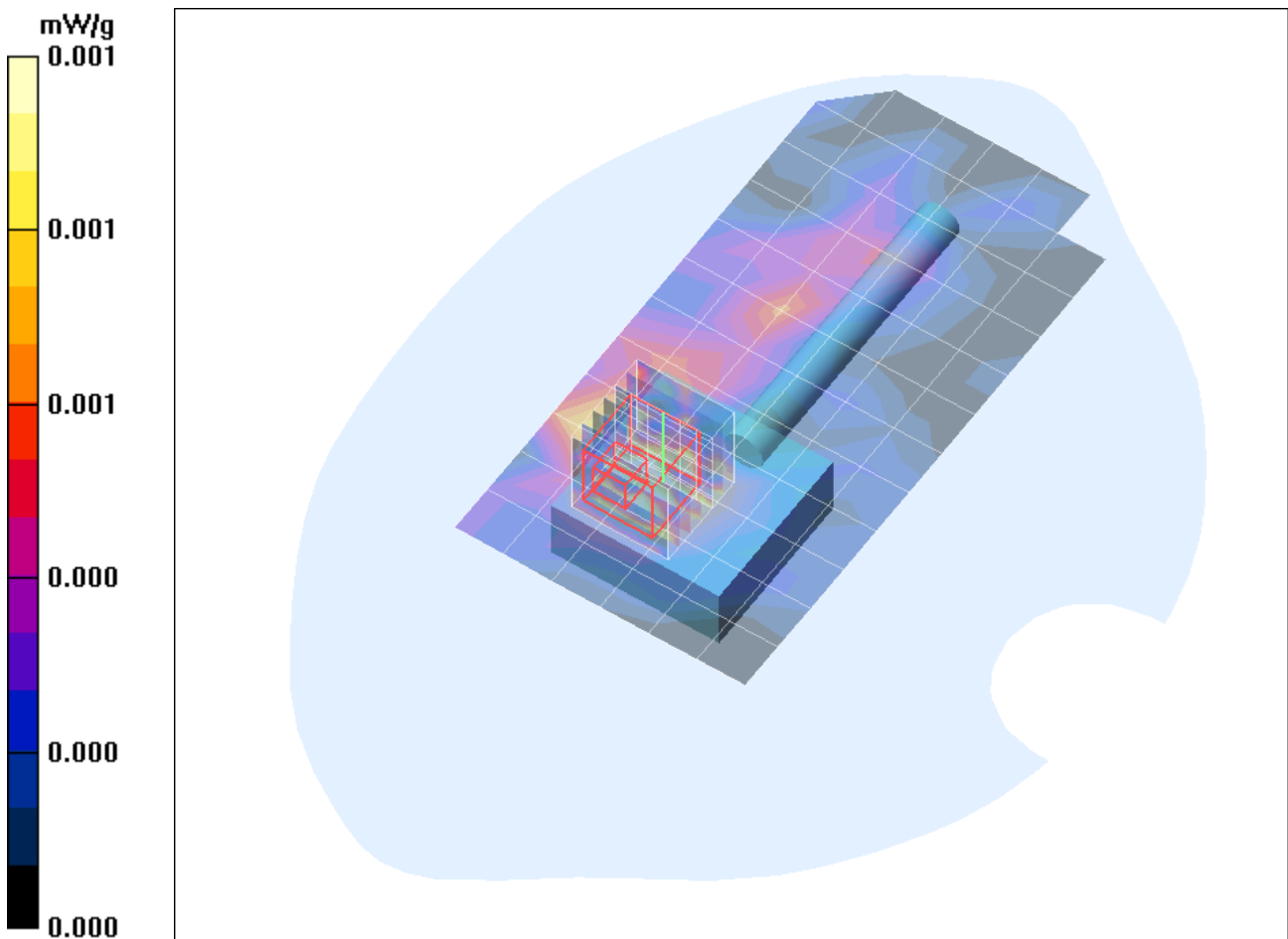


Fig. 4: SAR distribution for Sennheiser Communications D 10 HS, head configuration below the flat part of SAM phantom, headband wearing style, test pos. 2, antenna 2, mid channel.