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Appendix for the Report

Dosimetric Assessment of the Portable Device KX-TGA950 (FCC ID: ACJ96NKX-TGA950) (IC: 216A-KXTGA950)

According to the FCC Requirements SAR Distribution Plots

June 18, 2013

IMST GmbH

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Customer

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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. This version supersedes all previous versions of this report.

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1 SAR Distribution Plots, Head Measurement

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA950_yplm_1_ant1.da4](#)

DUT: Panasonic; Type: KX-TGA950;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.41, 8.41, 8.41); Calibrated: 24.09.2012

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

- Electronics: DAE4 Sn631; Calibrated: 20.09.2012

- 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

Cheek Left/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.078 mW/g

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

Reference Value = 6.31 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.043 mW/g

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

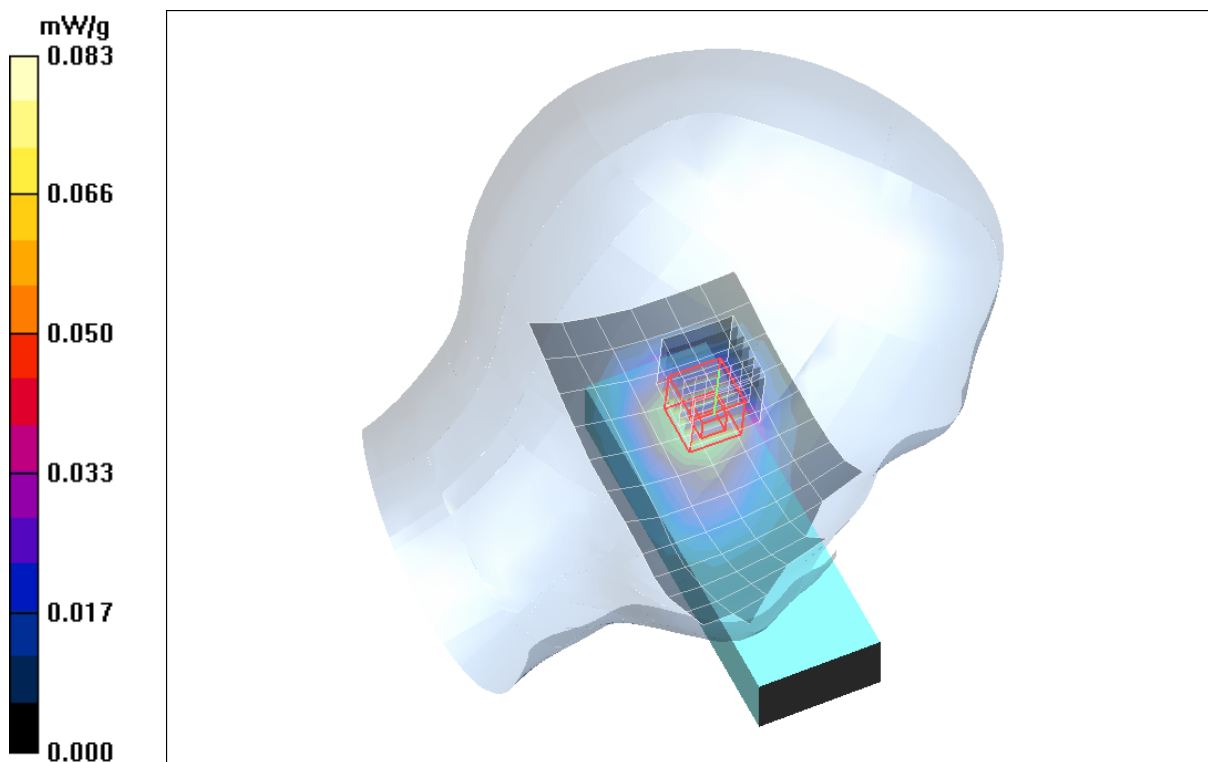


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head, (June 14, 2013; Ambient Temperature: 22.6°C; Liquid Temperature: 22.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA950_yplm_2_ant1.da4](#)

DUT: Panasonic; Type: KX-TGA950;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.41, 8.41, 8.41); Calibrated: 24.09.2012

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

- Electronics: DAE4 Sn631; Calibrated: 20.09.2012

- 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

Tilted Left/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 5.73 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.050 mW/g

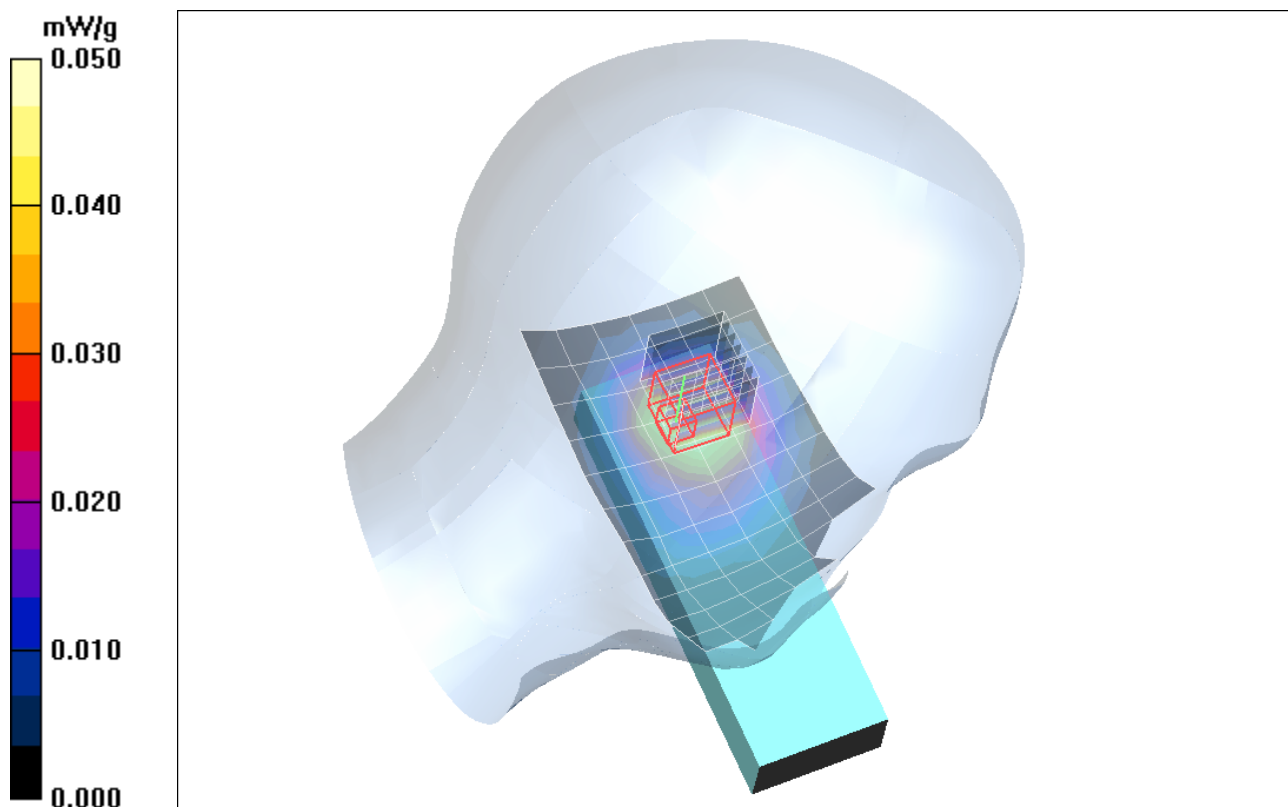


Fig. 2: SAR distribution for DECT US, channel 2, tilted position, left side of head, (June 14, 2013; Ambient Temperature: 22.6°C; Liquid Temperature: 22.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA950_yprm_1_ant1.da4](#)

DUT: Panasonic; Type: KX-TGA950;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.41, 8.41, 8.41); Calibrated: 24.09.2012

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

- Electronics: DAE4 Sn631; Calibrated: 20.09.2012

- 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

Cheek Right/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.078 mW/g

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

Reference Value = 6.76 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.094 mW/g

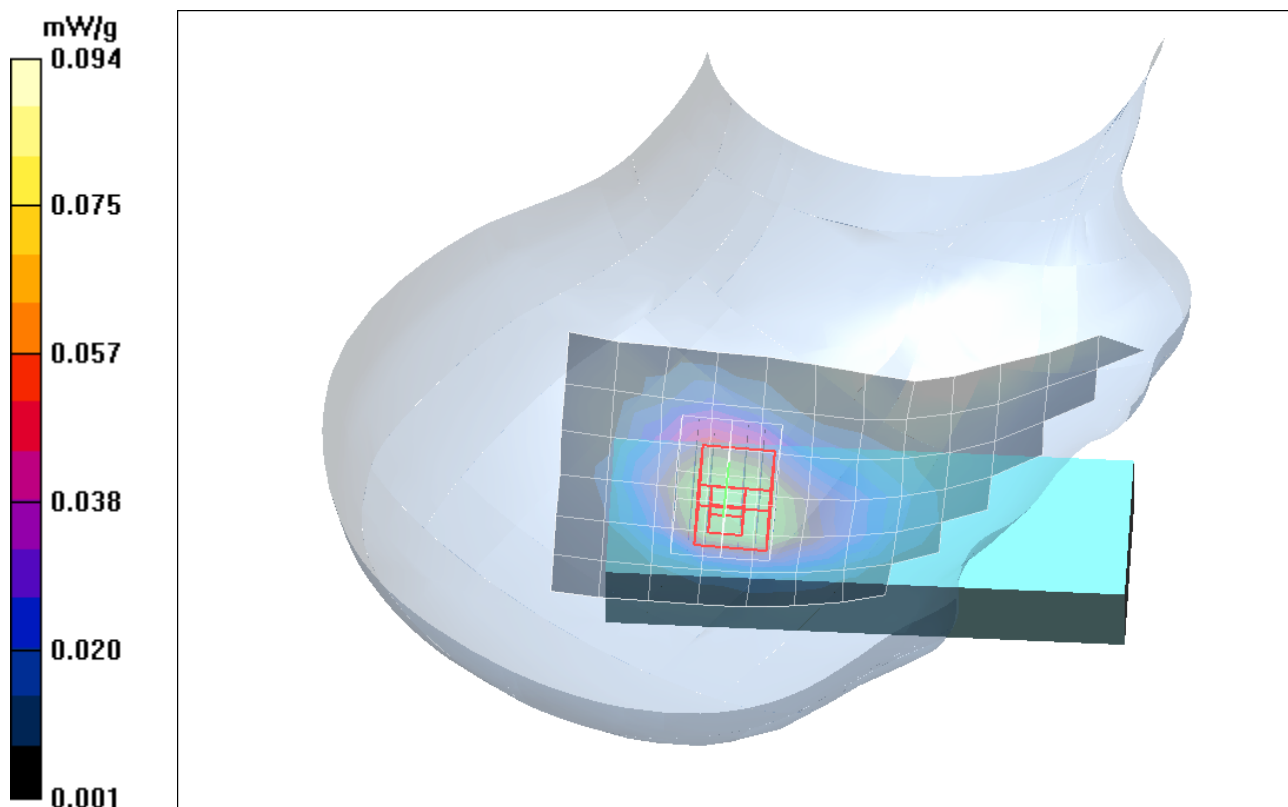


Fig. 3: SAR distribution for DECT US, channel 2, cheek position, right side of head, (June 14, 2013; Ambient Temperature: 22.6°C; Liquid Temperature: 22.3°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA950_yprm_2_ant1.da4](#)

DUT: Panasonic; Type: KX-TGA950;

Program Name: DECT

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

Medium parameters used: $f = 1924.99$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 41$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.41, 8.41, 8.41); Calibrated: 24.09.2012

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

- Electronics: DAE4 Sn631; Calibrated: 20.09.2012

- 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

Tilted Right/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.046 mW/g

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

Reference Value = 5.64 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.050 mW/g

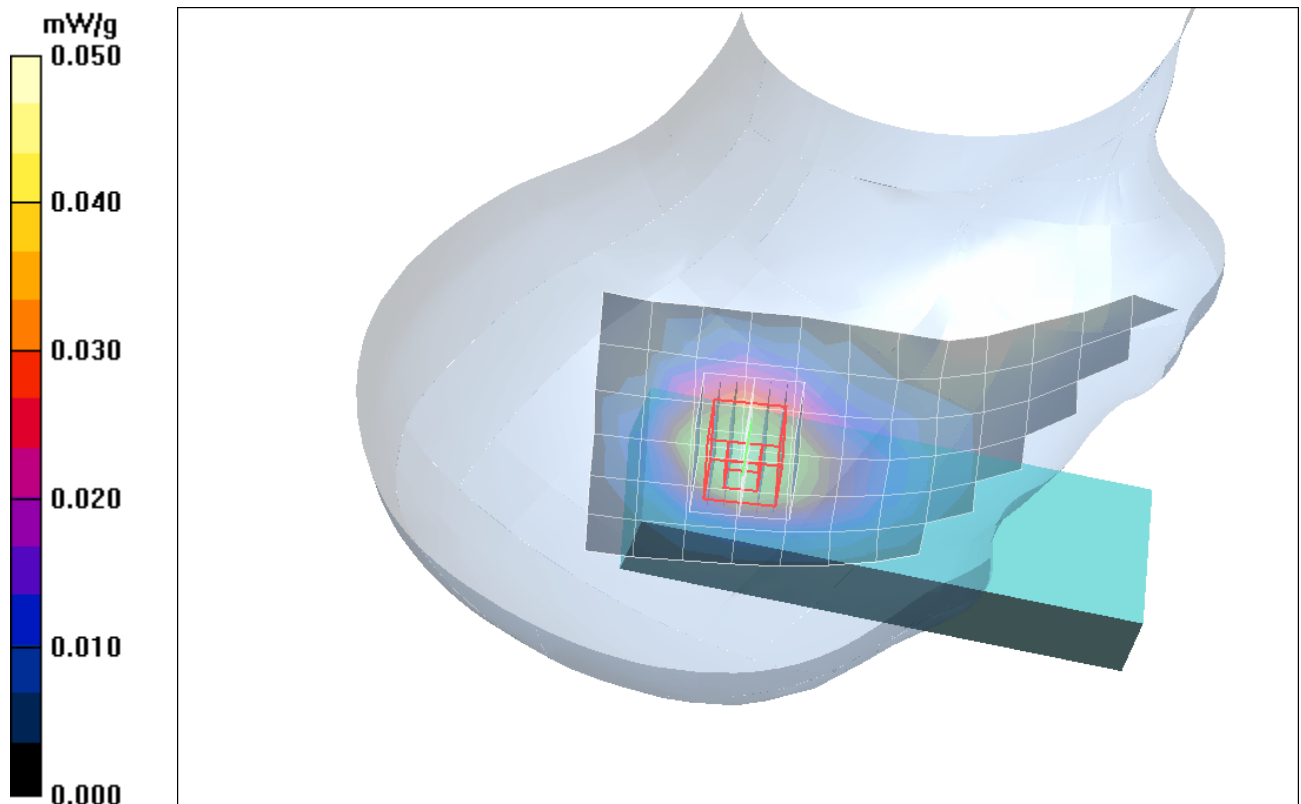


Fig. 4: SAR distribution for DECT US, channel 2, tilted position, right side of head, (June 14, 2013; Ambient Temperature: 22.6°C; Liquid Temperature: 22.3°C)

2 SAR Distribution Plots, Body Measurement

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA950_yphm_1_up.da4](#)

DUT: Panasonic; Type: KX-TGA950;

Program Name: DECT

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

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: EX3DV4 - SN3536; ConvF(8.4, 8.4, 8.4); Calibrated: 24.09.2012

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

- Electronics: DAE4 Sn631; Calibrated: 20.09.2012

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

Maximum value of SAR (measured) = 0.074 mW/g

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

Reference Value = 3.32 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.085 mW/g

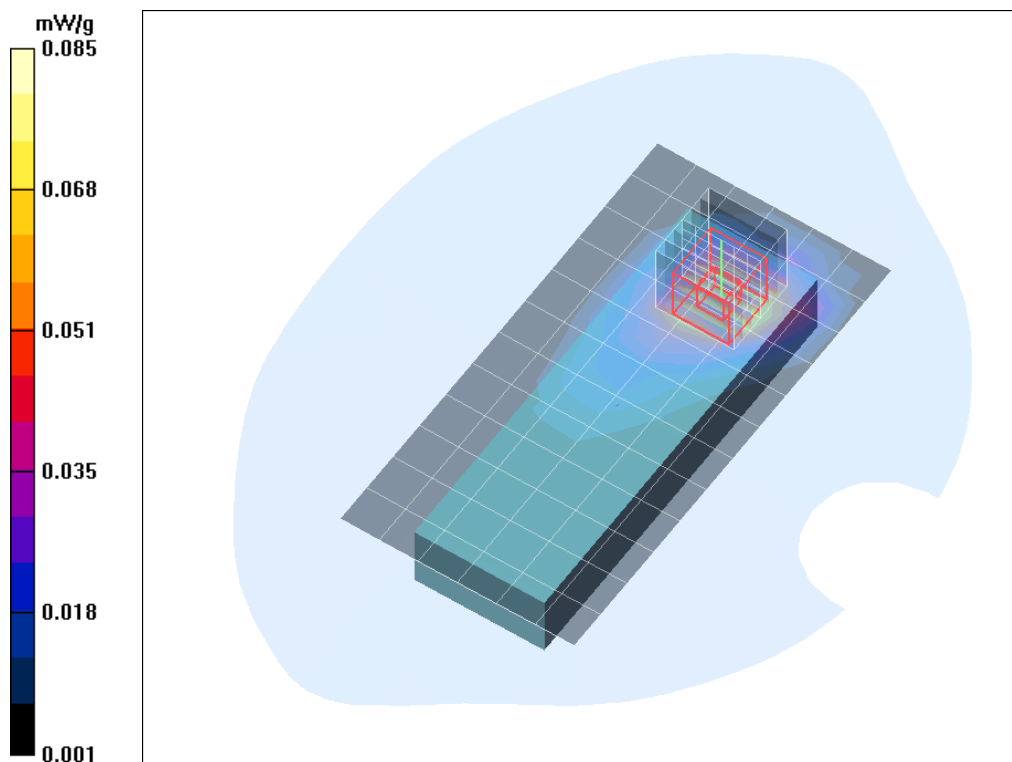


Fig. 5: SAR distribution for DECT US, channel 2, display up, belt clip and headset attached, 0 mm distance (June 17, 2013; Ambient Temperature: 22.9°C; Liquid Temperature: 22.5°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [TGA950_yphm_2_down.da4](#)

DUT: Panasonic; Type: KX-TGA950;

Program Name: DECT

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

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: EX3DV4 - SN3536; ConvF(8.4, 8.4, 8.4); Calibrated: 24.09.2012

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

- Electronics: DAE4 Sn631; Calibrated: 20.09.2012

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

Maximum value of SAR (measured) = 0.030 mW/g

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

Reference Value = 1.95 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 0.046 W/kg

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

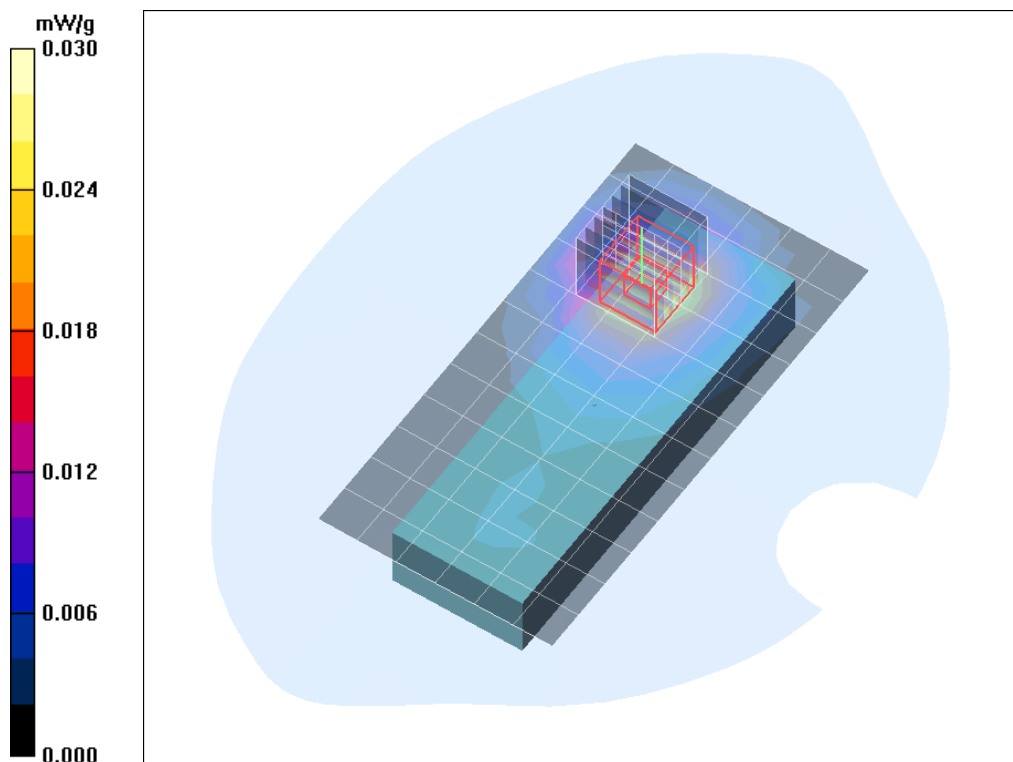


Fig. 6: SAR distribution for DECT US, channel 2, display down, belt clip and headset attached, 0 mm distance (June 17, 2013; Ambient Temperature: 22.9°C; Liquid Temperature: 22.5°C).