

Appendix for the SAR Test Report

Dosimetric Assessment of the CEEEOACH Bluetooth Device from peiker acustic GmbH & Co.KG. (FCC ID: QWYCEEEOACH)

According to the FCC Requirements SAR Distribution Plots

March 26, 2015

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The test results only relate to the items tested.

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1 SAR Distribution Plots

Test Lab: IMST GmbH, DASY Blue (I); File Name: [Ceecoach C40 bbhm front 0mm clip hs.da4](#)

DUT: Peiker; Type: Ceecoach; Serial: 00131E-271C40;

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.97 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (8x10x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.397 mW/g

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

Reference Value = 12.3 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.419 mW/g

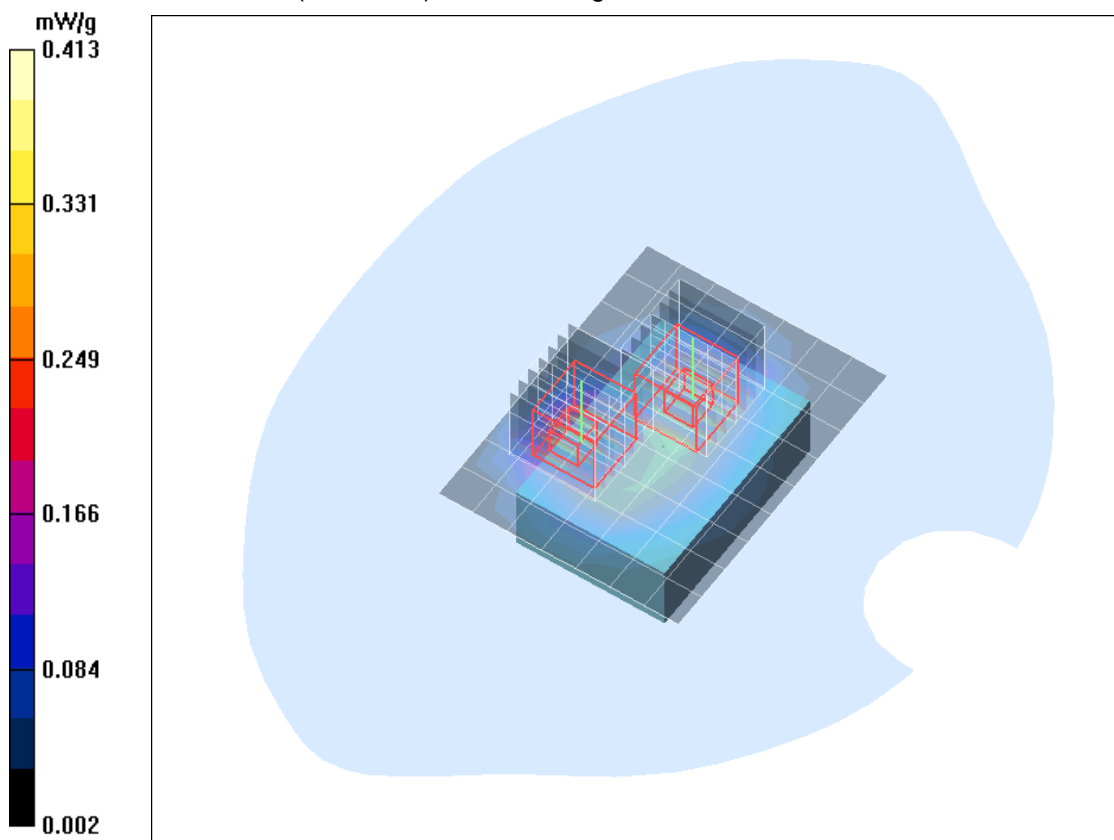


Fig. 1: SAR distribution for Bluetooth, channel 39, front side, headset and belt clip attached, gap = 0 mm

Test Lab: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhm back 0mm clip hs.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (8x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.106 mW/g

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

Reference Value = 6.93 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.105 mW/g

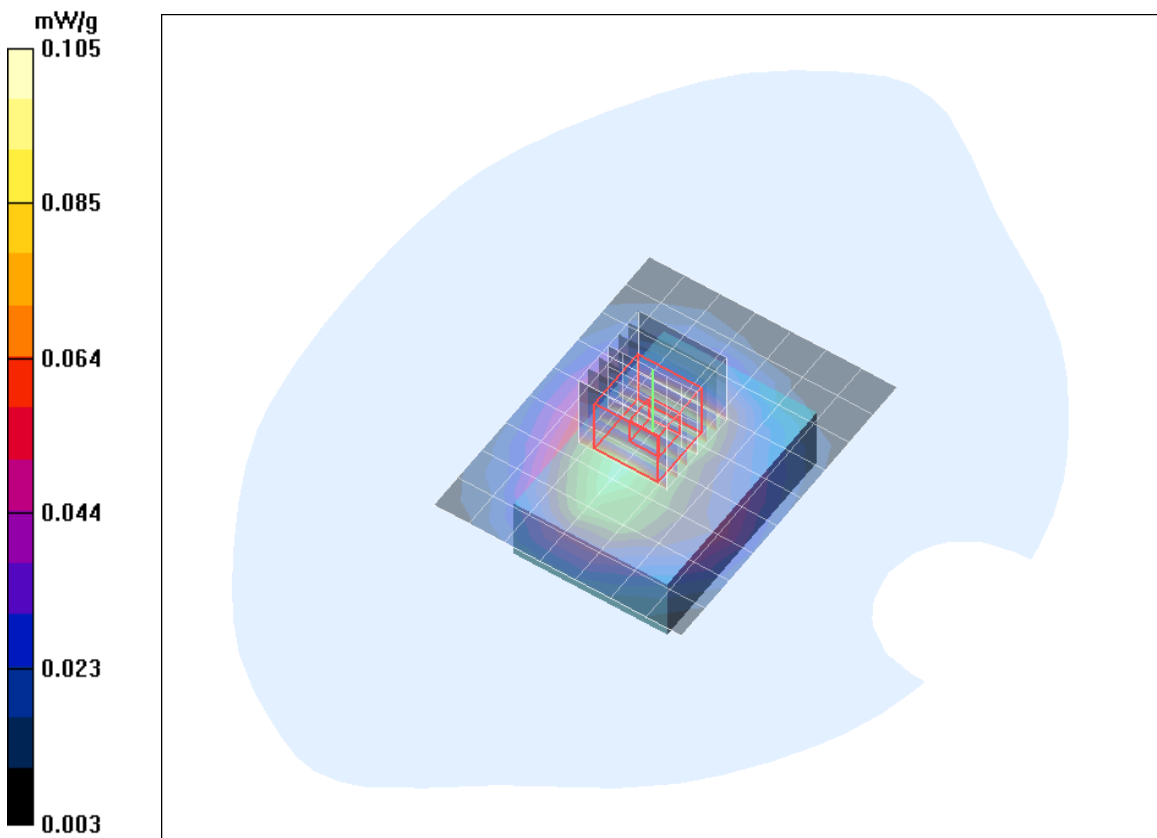


Fig. 2: SAR distribution for Bluetooth, channel 39, headset and belt clip attached, back side, gap = 0 mm

Test Lab: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhm bottom 0mm clip hs.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.122 mW/g

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

Reference Value = 7.51 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.145 mW/g

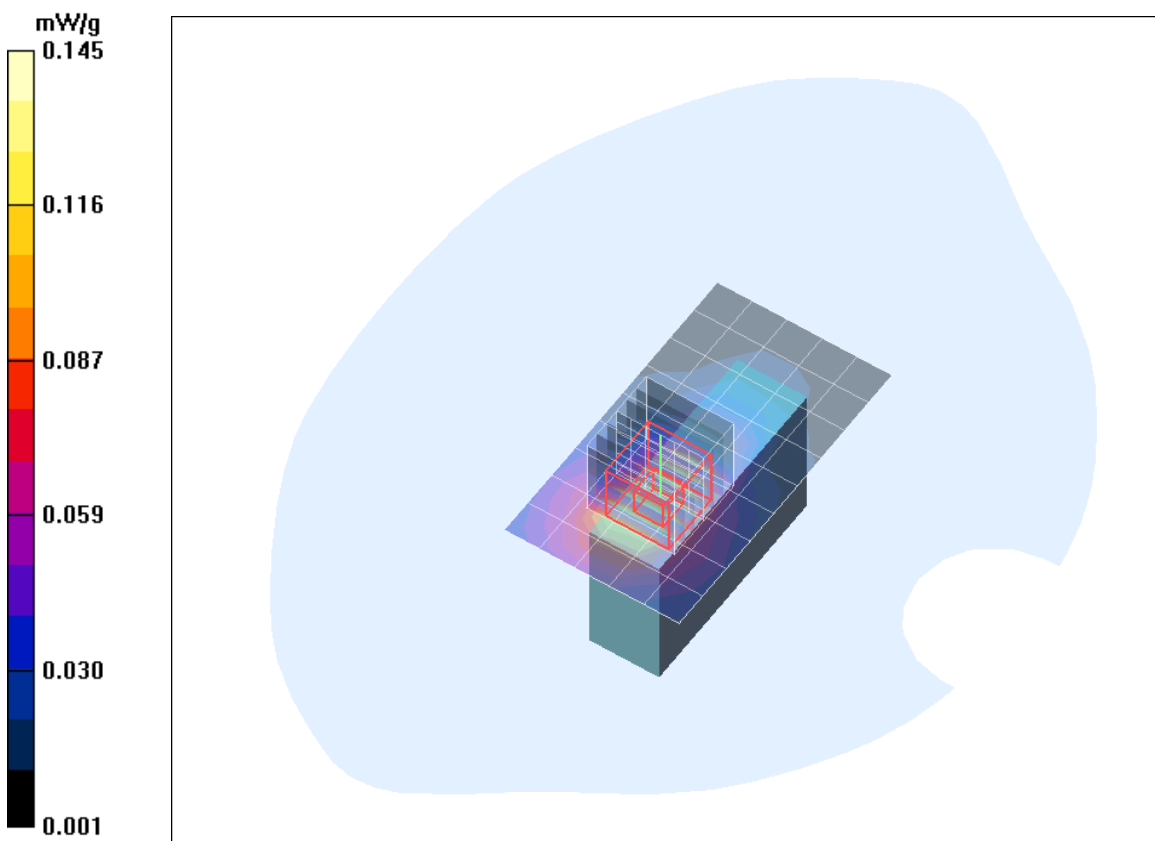


Fig. 3: SAR distribution for Bluetooth, channel 39, headset and belt clip attached, bottom side, gap = 0 mm

Test Lab: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhm top 0mm clip hs.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.567 mW/g

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

Reference Value = 13.6 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.213 mW/g

Maximum value of SAR (measured) = 0.617 mW/g

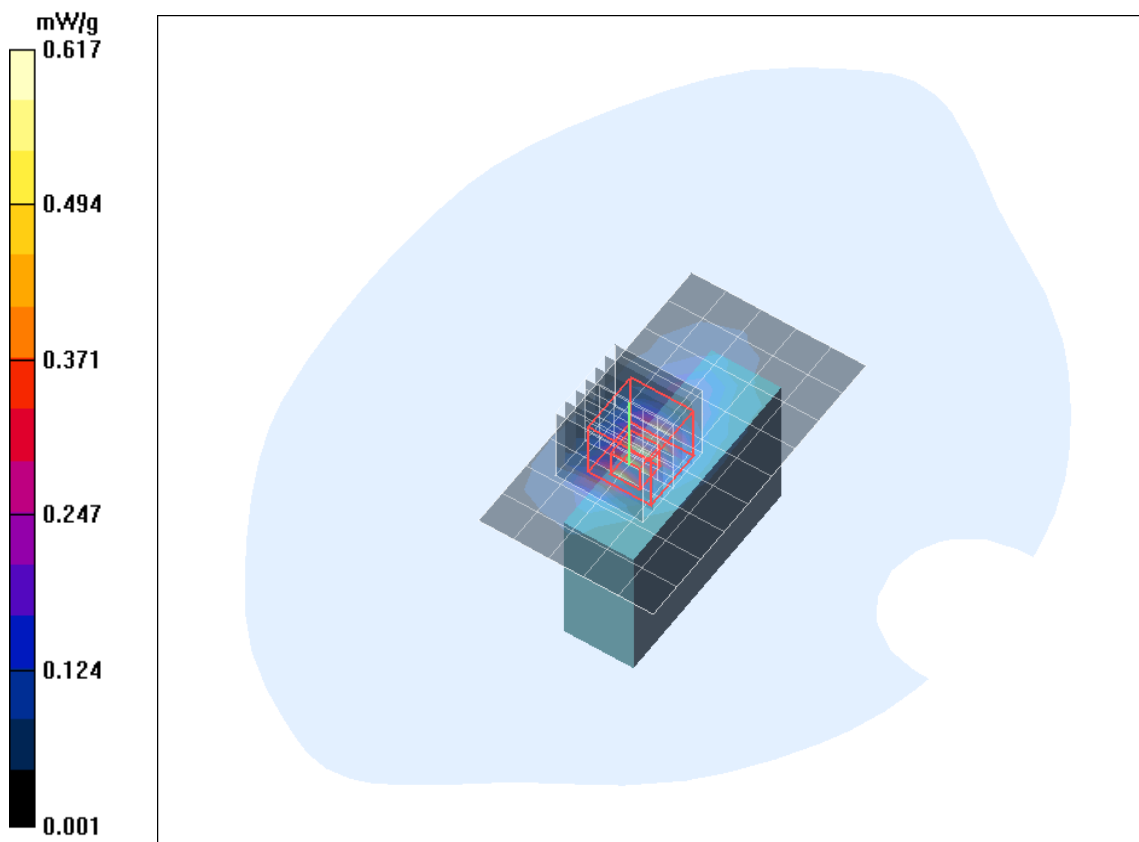


Fig. 4: SAR distribution for Bluetooth, channel 39, headset and belt clip attached, top side, gap = 0 mm

Test Lab: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhm left 0mm clip hs.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.511 mW/g

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

Reference Value = 16.9 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.573 mW/g

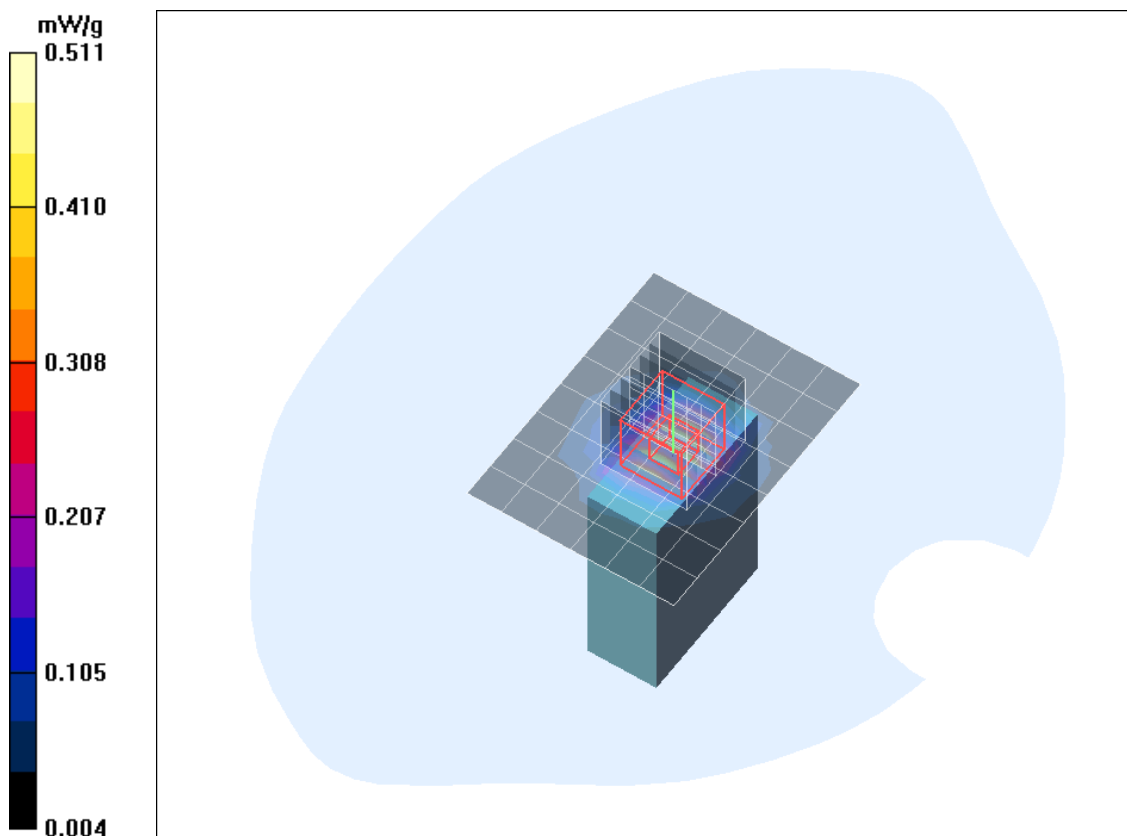


Fig. 5: SAR distribution for Bluetooth, channel 39, headset and belt clip attached, left side, gap = 0 mm

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhm right 0mm clip.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.383 mW/g

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

Reference Value = 14.5 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.430 mW/g

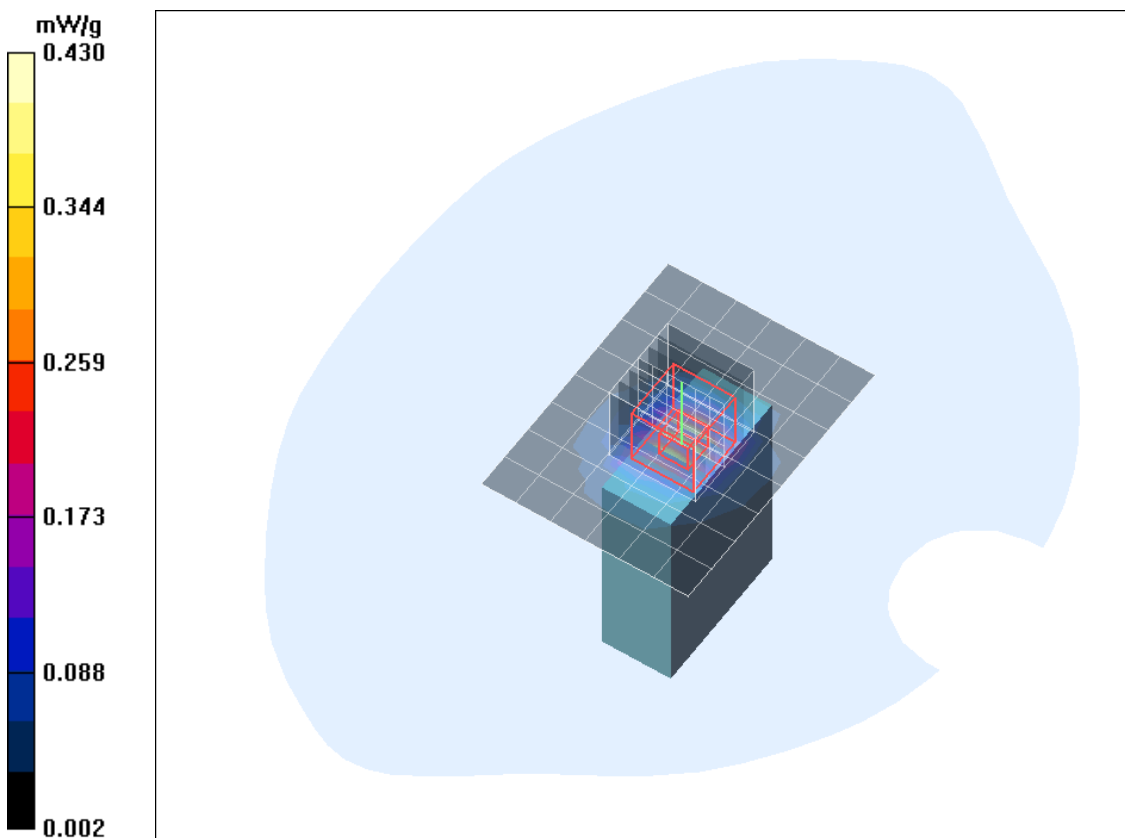


Fig. 6: SAR distribution for Bluetooth, channel 39, belt clip attached, right side, gap = 0 mm

Test Lab: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhl top 0mm clip hs.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.429 mW/g

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

Reference Value = 12.0 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.486 mW/g

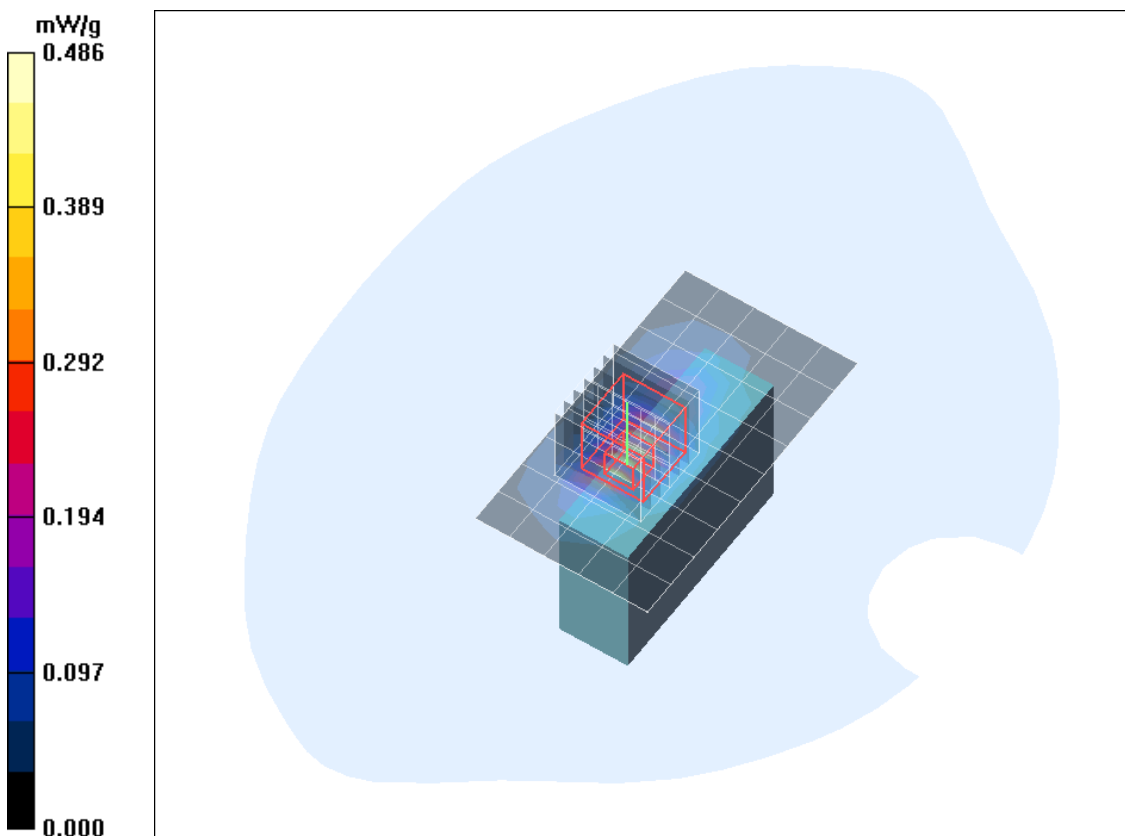


Fig. 7: SAR distribution for Bluetooth, channel 0, headset and belt clip attached, top side, gap = 0 mm

Test Lab: IMST GmbH, DASY Blue (I); **File Name:** [Ceecoach C40 bbhh top 0mm clip hs.da4](#)

DUT: Peiker; **Type:** Ceecoach; **Serial:** 00131E-271C40

Program Name: Bluetooth

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2480$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.34, 7.34, 7.34); Calibrated: 24.07.2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.07.2014
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body Worn/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.470 mW/g

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

Reference Value = 12.0 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.488 mW/g

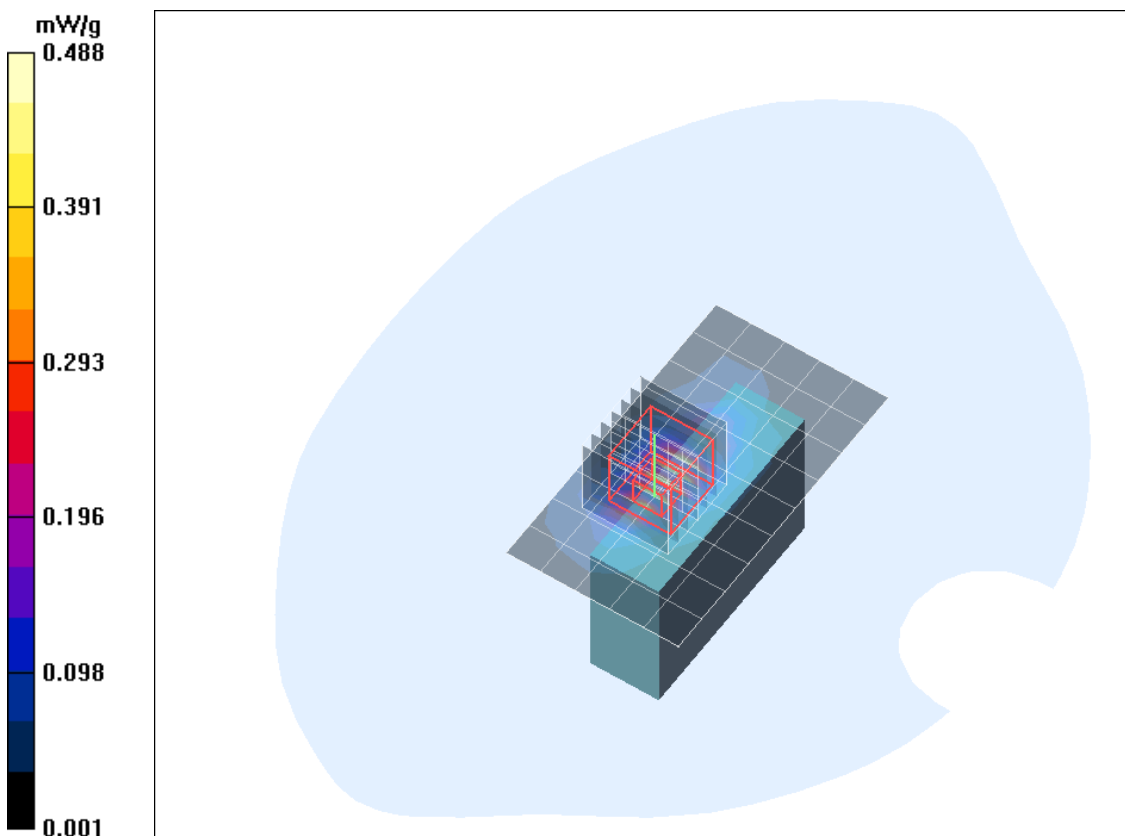


Fig. 8: SAR distribution for Bluetooth, channel 78, headset and belt clip attached, top side, gap = 0 mm