

Appendix for the Report

Dosimetric Assessment of the Prodigi Tablet PGI-100 from HumanWare (FCC ID: 0019188978PGITAB) (IC: 8670A-PGITAB)

According to the FCC Requirements SAR Distribution Plots

May 20, 2014

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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: [PGI-100_469_ywhm_dspl_ch6_b.da4](#)

DUT: Humanware Prodigy; Type: PGI-100; Serial: 109000002469

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3860; ConvF(7.47, 7.47, 7.47); Calibrated: 29.07.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (12x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.067 mW/g

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

Reference Value = 5.19 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.071 mW/g

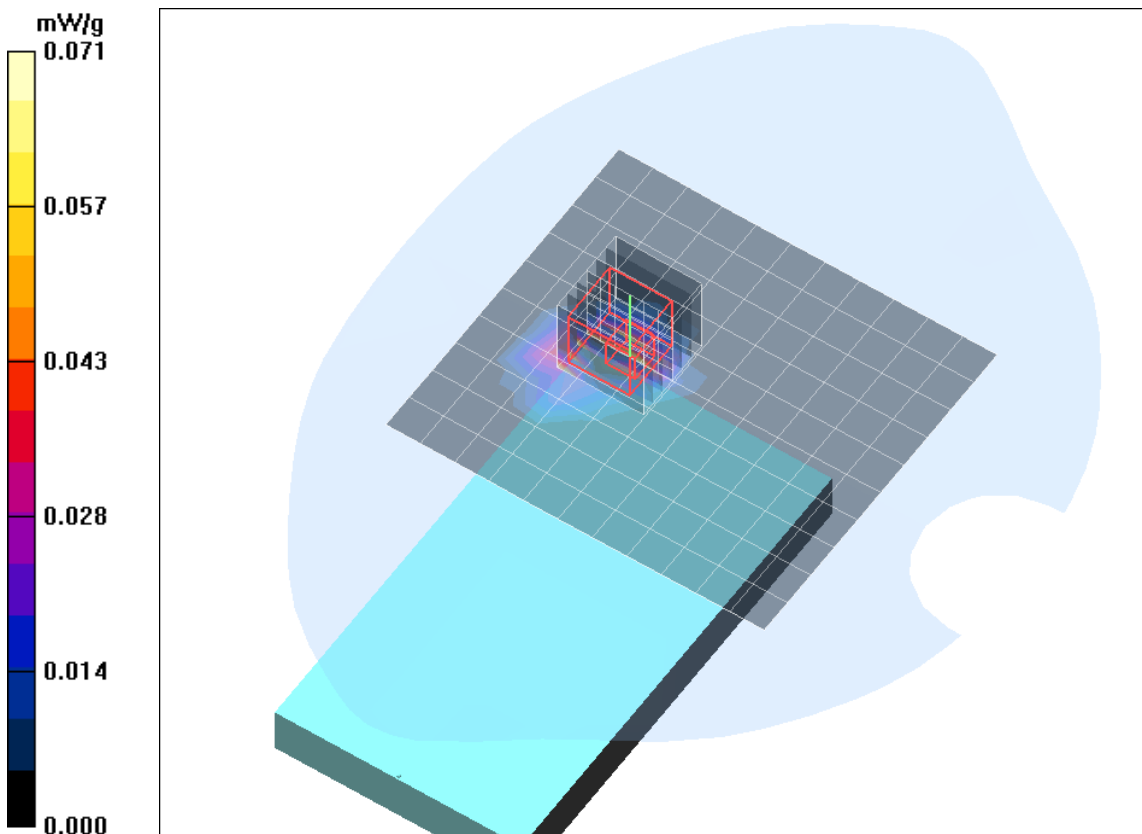


Fig. 1: SAR distribution for IEEE 802.11 b, channel 6, front side, gap = 0 mm (May 05, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [PGI-100_469_ywhm_back_ch6_b.da4](#)

DUT: Humanware Prodigy; Type: PGI-100; Serial: 109000002469

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3860; ConvF(7.47, 7.47, 7.47); Calibrated: 29.07.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (12x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.045 mW/g

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

Reference Value = 4.43 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.012 mW/g

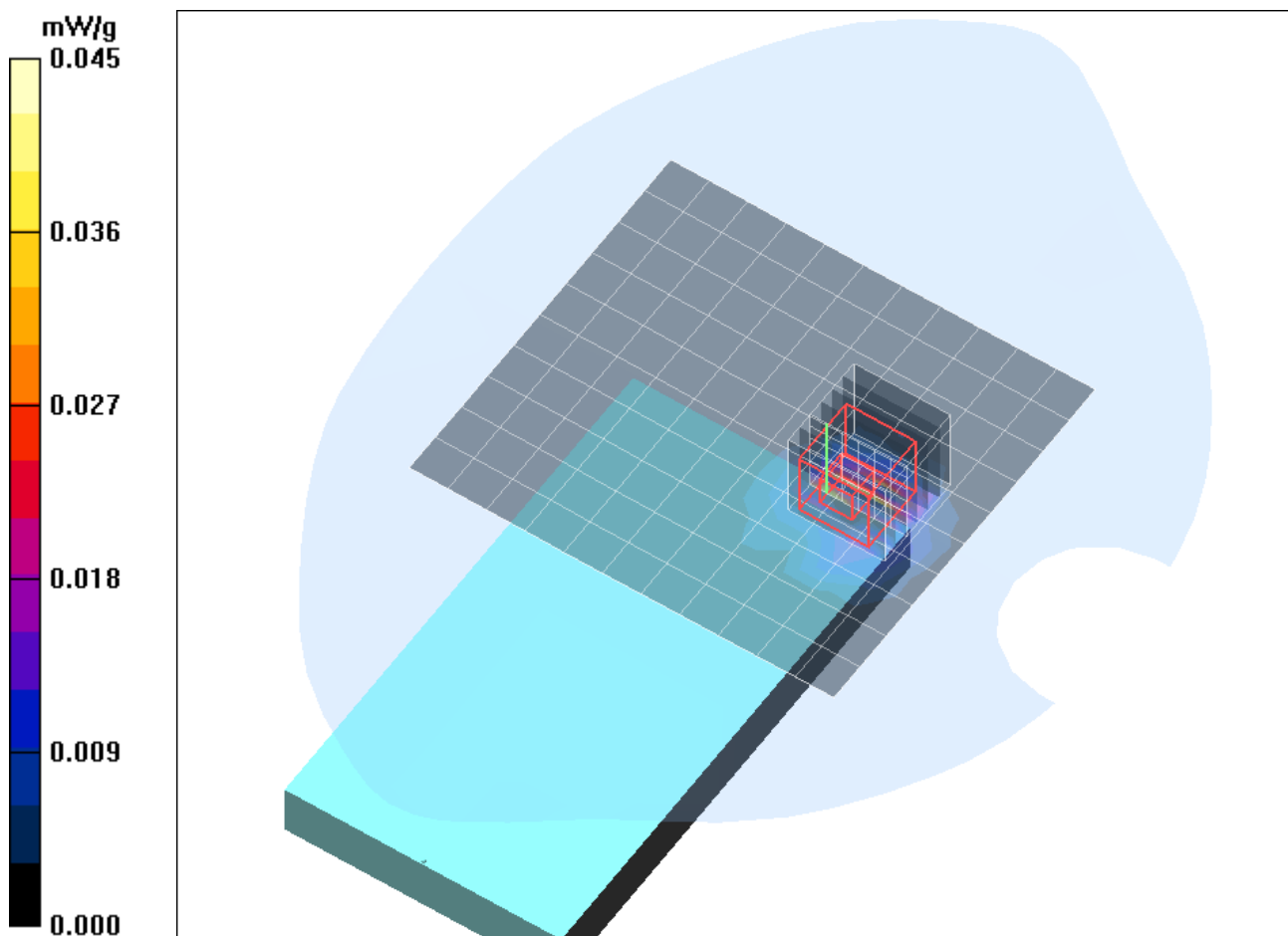


Fig. 2: SAR distribution for IEEE 802.11 b, channel 6, back side, gap = 0 mm (May 05, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [PGI-100_469_ywhm_top_ch6_b.da4](#)

DUT: Humanware Prodigy; Type: PGI-100; Serial: 109000002469

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3860; ConvF(7.47, 7.47, 7.47); Calibrated: 29.07.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (8x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.017 mW/g

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

Reference Value = 2.77 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.108 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.00587 mW/g

Maximum value of SAR (measured) = 0.026 mW/g

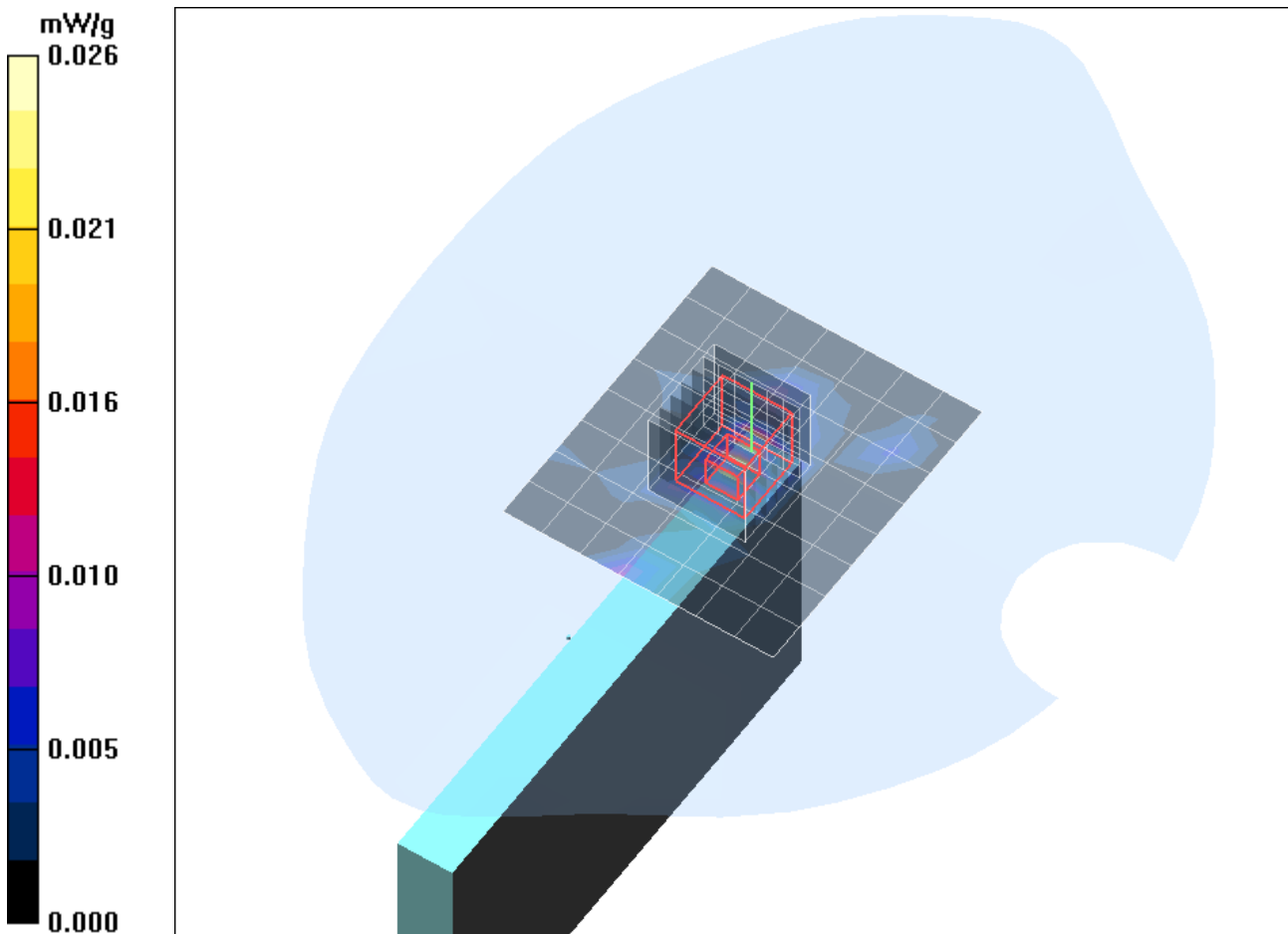


Fig. 3: SAR distribution for IEEE 802.11 b, channel 6, top edge, gap = 0 mm (May 05, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [PGI-100_469_ywhm_right_ch6_b.da4](#)

DUT: Humanware Prodigy; Type: PGI-100; Serial: 109000002469

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3860; ConvF(7.47, 7.47, 7.47); Calibrated: 29.07.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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=12mm, dy=12mm

Maximum value of SAR (measured) = 0.061 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 = 0.090 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.138 mW/g

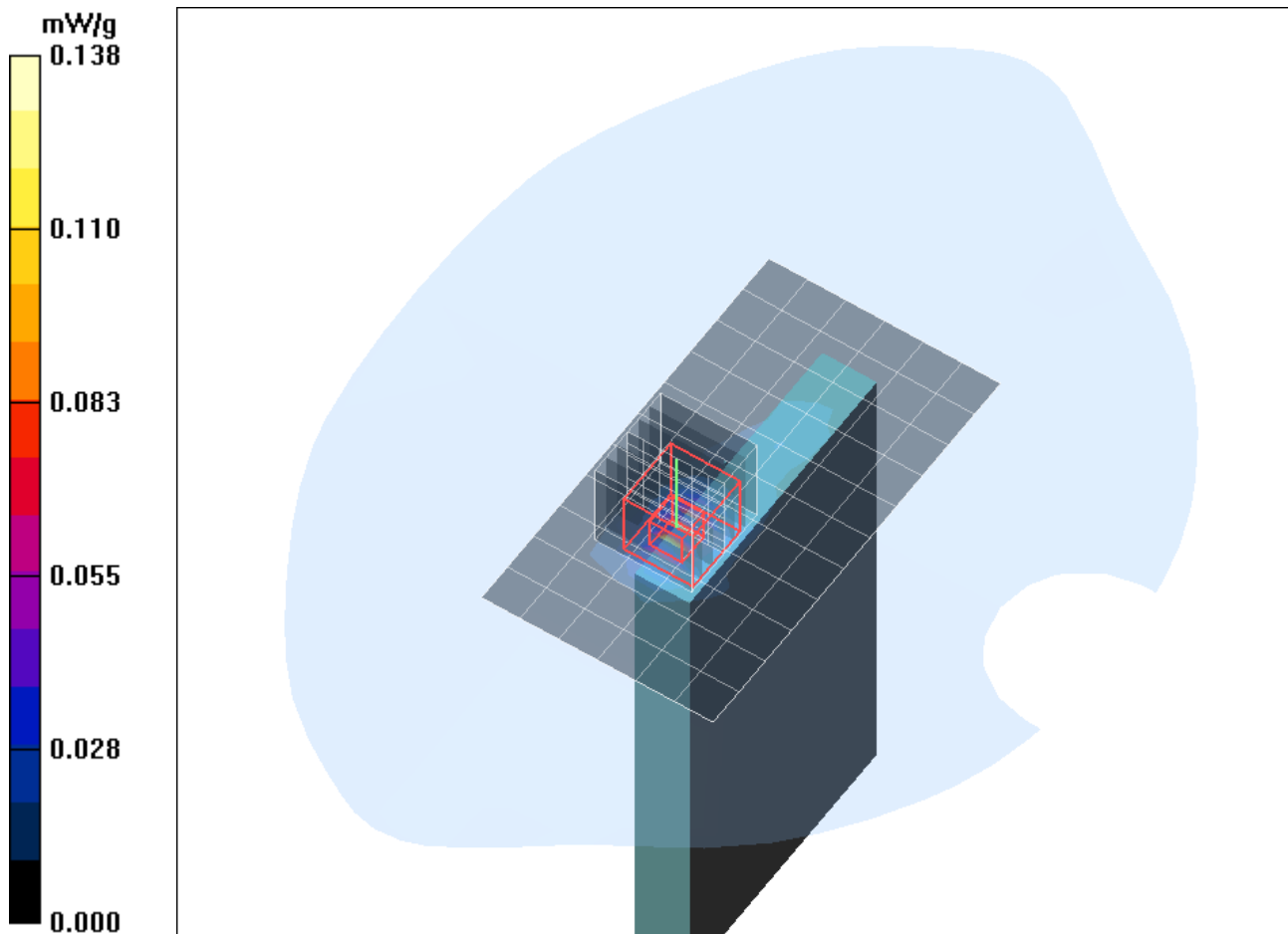


Fig. 4: SAR distribution for IEEE 802.11 b, channel 6, right edge, gap = 0 mm (May 05, 2014)

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [PGI-100_469_ywhm_bottom_ch6_b.da4](#)

DUT: Humanware Prodigy; Type: PGI-100; Serial: 109000002469

Program Name: IEEE 802.11 b

Communication System: WLAN 2450; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3860; ConvF(7.47, 7.47, 7.47); Calibrated: 29.07.2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 23.09.2013
- 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 (7x9x1): Measurement grid: dx=12mm, dy=12mm

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

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

Reference Value = 1.33 V/m; Power Drift = -5.66 dB

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = 8.72e-005 mW/g; SAR(10 g) = 1.11e-005 mW/g

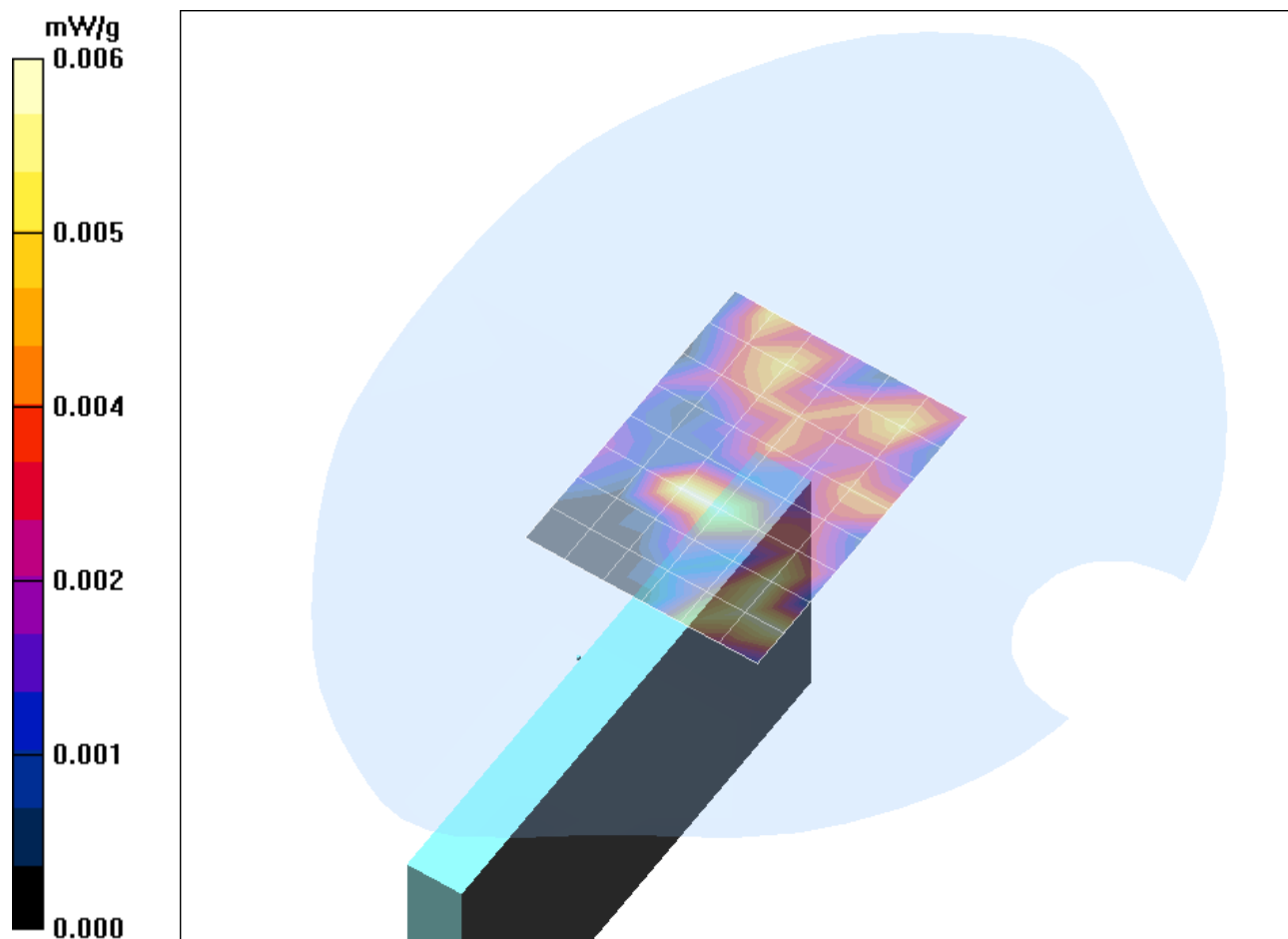


Fig. 5: SAR distribution for IEEE 802.11 b, channel 6, bottom edge, gap = 0 mm (May 05, 2014)