
Appendix for the Report

Dosimetric Assessment of the Siemens M46 (FCC ID: PWX-M46) According to the FCC Requirements

SAR Distribution Plots

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The test results only relate to the items tested.
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1 SAR Distribution Plots, PCS 1900

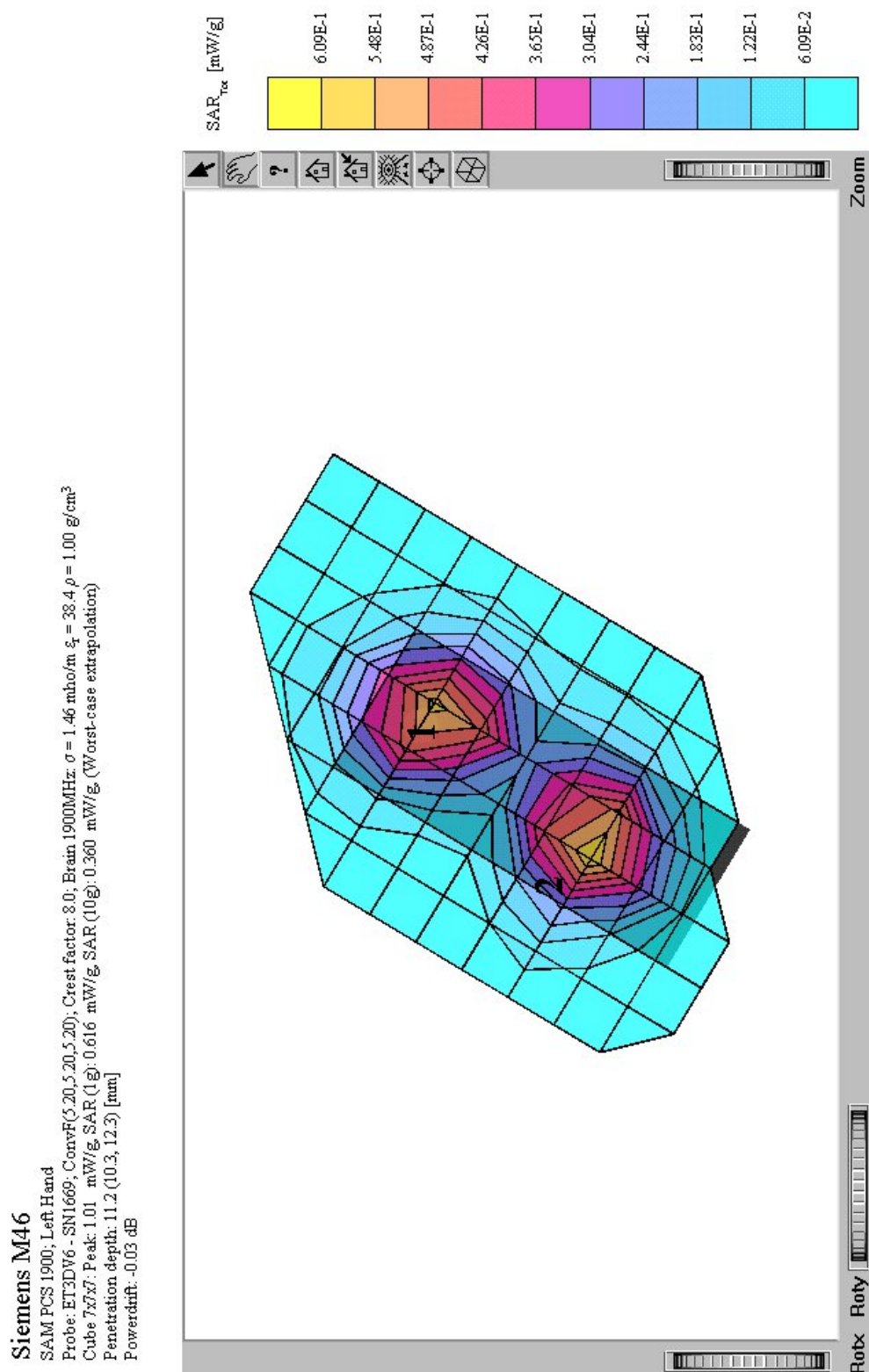


Fig. 1: SAR distribution, PCS 1900, channel 661, cheek position, left head side, Cube 2: 0.531 W/kg.

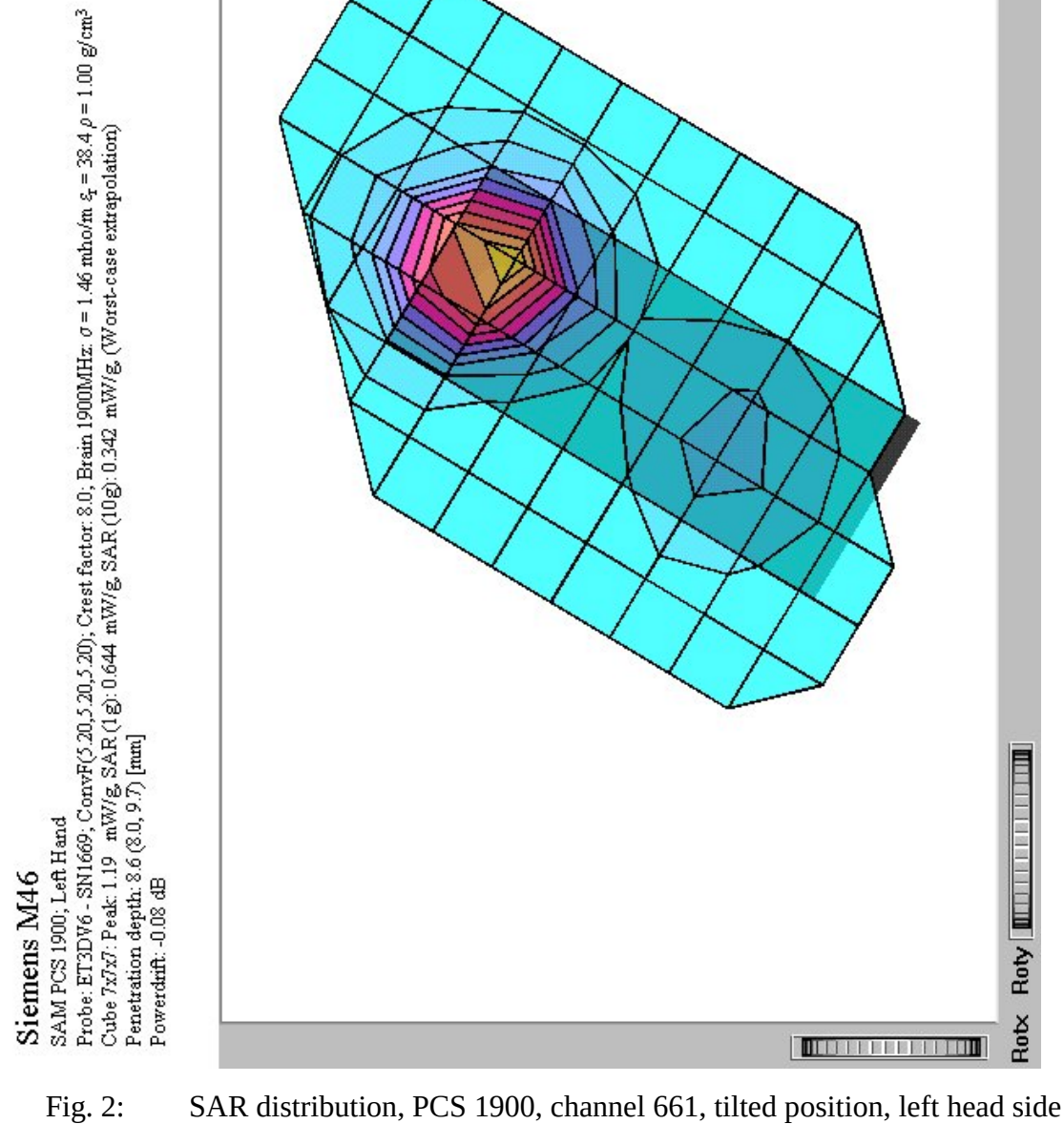


Fig. 2: SAR distribution, PCS 1900, channel 661, tilted position, left head side

Siemens M46

SAM PCS 1900; Right Hand

Probe: ET3DV6 - SN1669; ConvF(5.20,5.20,5.20); Crest factor: 8.0; Brain 1900MHz: $\sigma = 1.46$ mho/m $\epsilon_r = 38.4$ $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 1.21 mW/g; SAR (1g): 0.686 mW/g; SAR (10g): 0.337 mW/g; (Worst-case extrapolation)

Penetration depth: 9.4 (9.0, 10.2) [mm]

Powerdrift: 0.02 dB

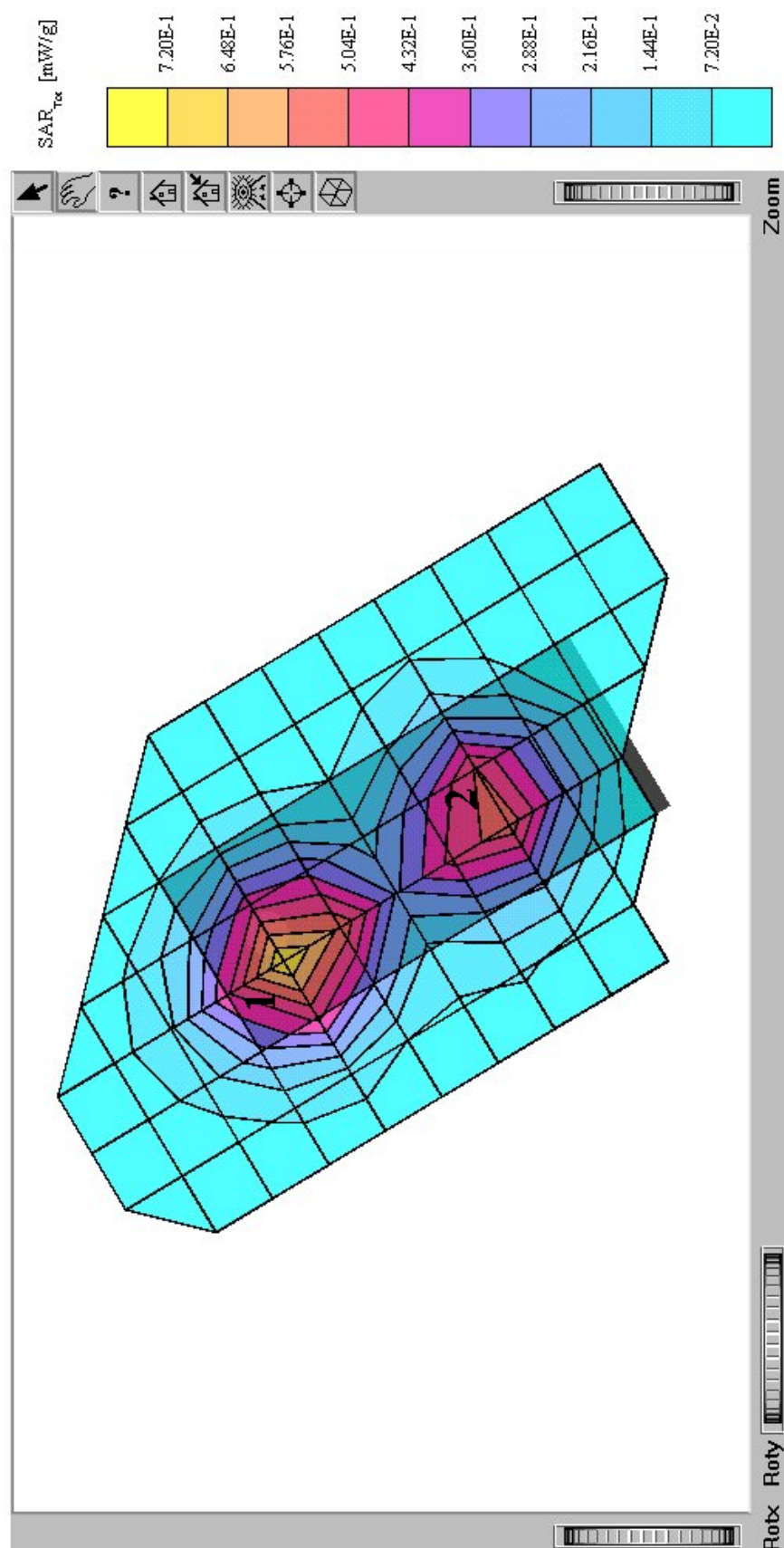


Fig. 3: SAR distribution, PCS 1900, channel 661, cheek position, right head side, Cube 2: 0.578 W/kg.

Siemens M46
SAM PCS 1900, Right Hand
Probe: ET3DV6 - SN1669; ConvF(5.20,5.20); Crest factor: 8.0; Brain 1900MHz: $\sigma = 1.46$ mho/m $\epsilon_r = 38.4$ $\rho = 1.00$ g/cm³
Cube 7x7x7: Peak: 1.32 mW/g, SAR (1g): 0.711 mW/g, SAR (10g): 0.376 mW/g, (Worst-case extrapolation)
Penetration depth: 8.6 (8.0, 9.7) [mm]
Powerdrift: 0.06 dB

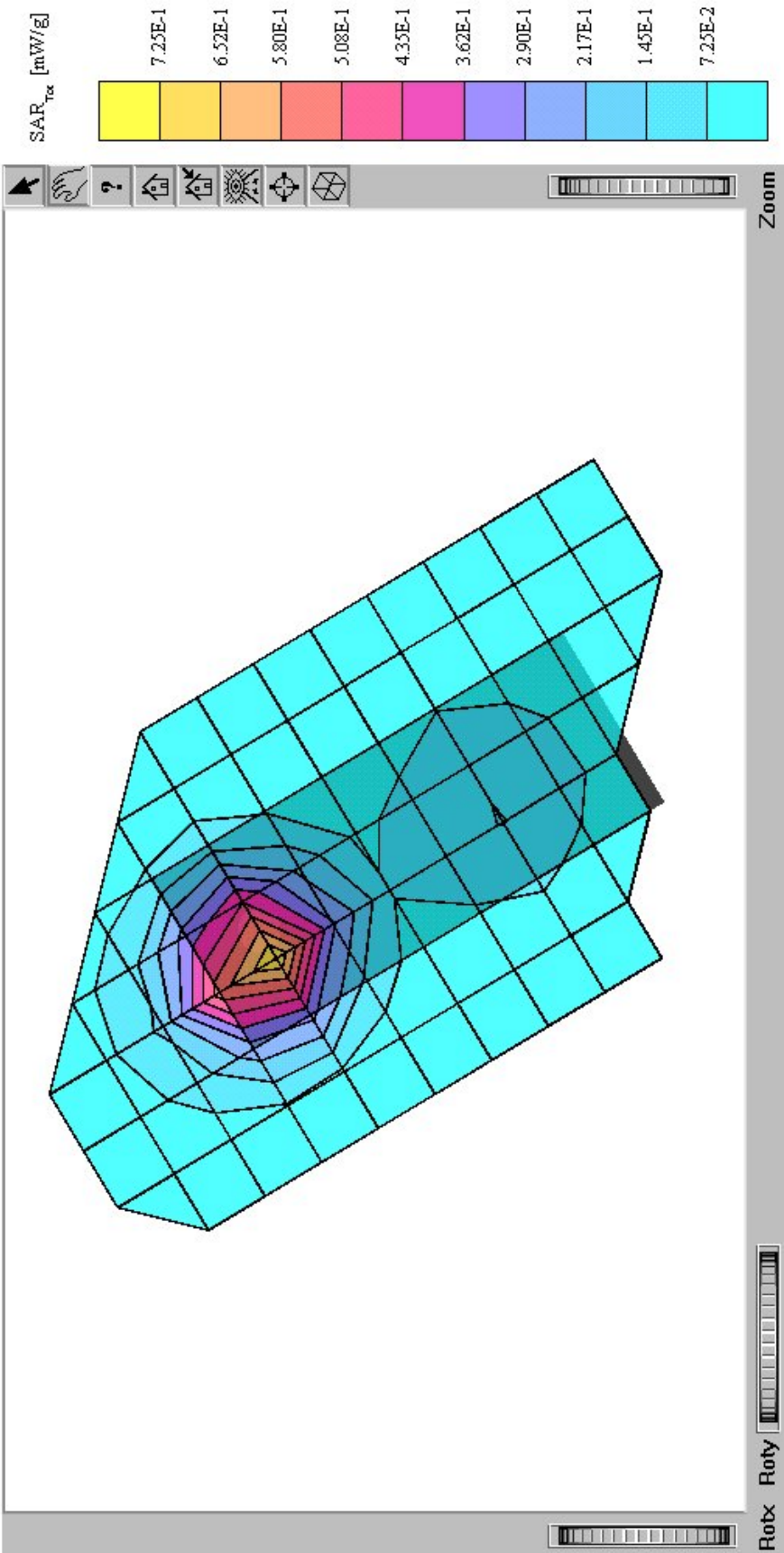


Fig. 4: Worst case SAR distribution, PCS 1900, channel 512, tilted position, right head side

Siemens M46

SAM PCS 1900; Flat

Probe: ET3DV6 - SN1669; ConvF(480,480,480); Crest factor: 8.0; body: 1900 MHz; $\sigma = 1.33$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 7x7x7; Peak: 0.470 mW/g; SAR (1g): 0.275 mW/g; SAR (10g): 0.163 mW/g; (Worst-case extrapolation)

Penetration depth: 9.7 (9.1, 10.7) [mm]

Powerdrift: -0.04 dB

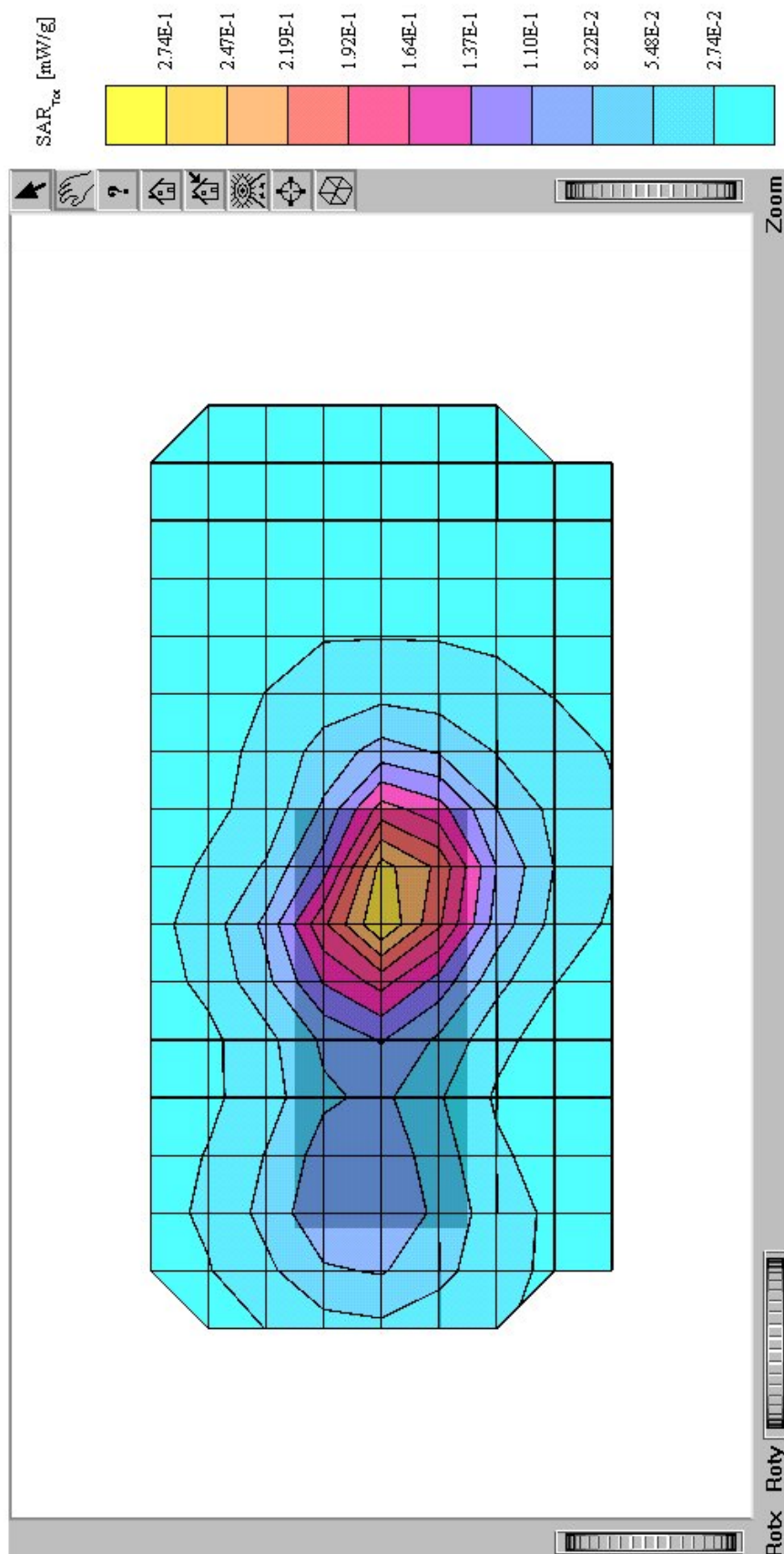


Fig 5: Worst case SAR distribution, PCS 1900, channel 512, body worn configuration, belt clip with headset

Siemens M46

SAM PCS 1900, Flat

Probe: ET3DV6 - SN1669; ConvF(4.80,4.80,4.80); Crest factor: 8.0; body 1900 MHz: $\sigma = 1.53$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 7x7x7: Peak: 0.436 mW/g SAR (1g): 0.246 mW/g SAR (10g): 0.143 mW/g (Worst-case extrapolation)

Penetration depth: 9.7 (8.7, 11.2) [mm]

Powerdrift: 0.00 dB

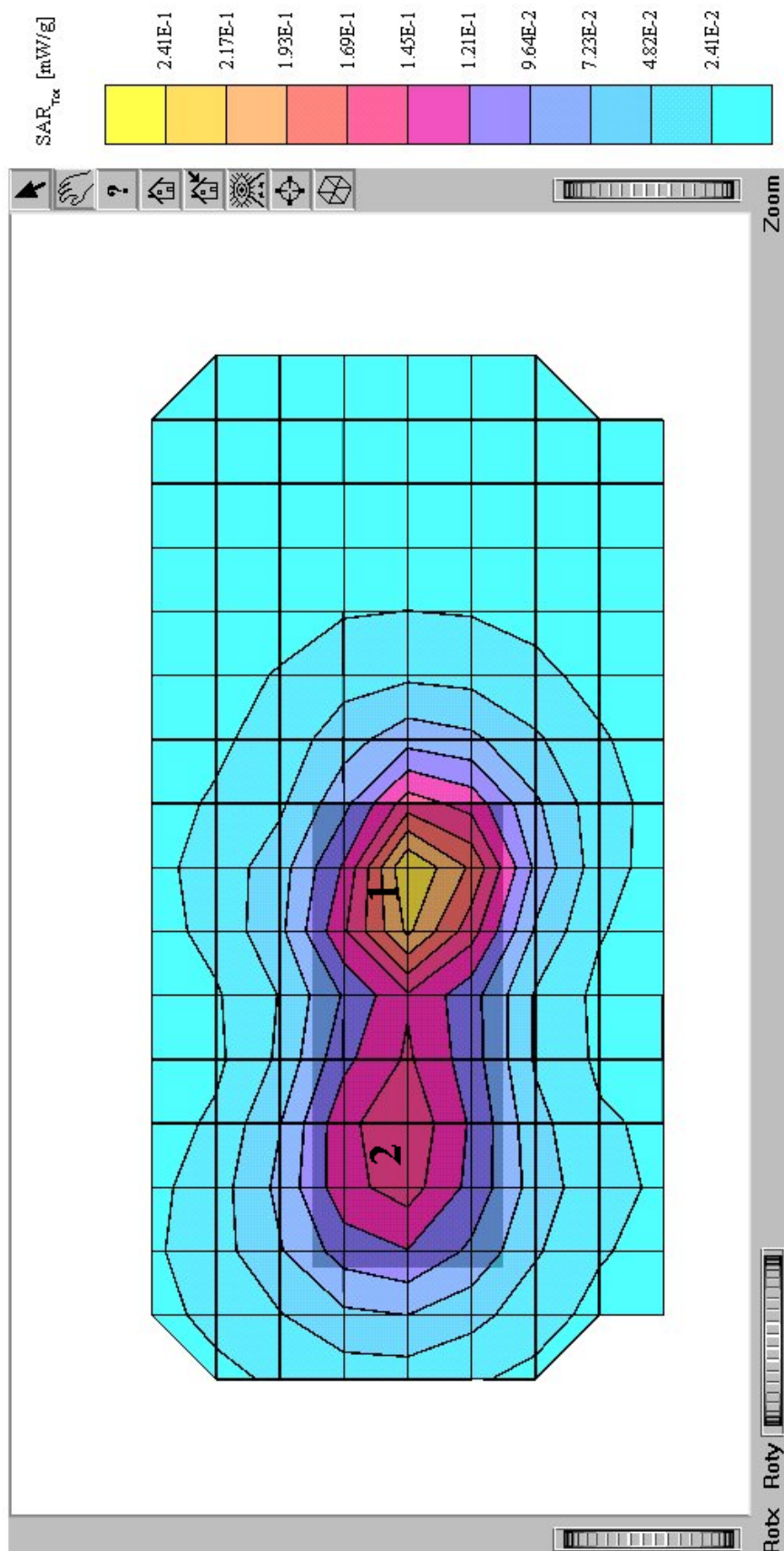


Fig. 6: Worst case SAR distribution, PCS 1900, channel 512, body worn configuration, belt clip with MP3 player, Cube 2: 0.158 W/kg.

2 SAR z-axis scan

The following pictures shown the plot of SAR versus liquid depth for the worst case values.

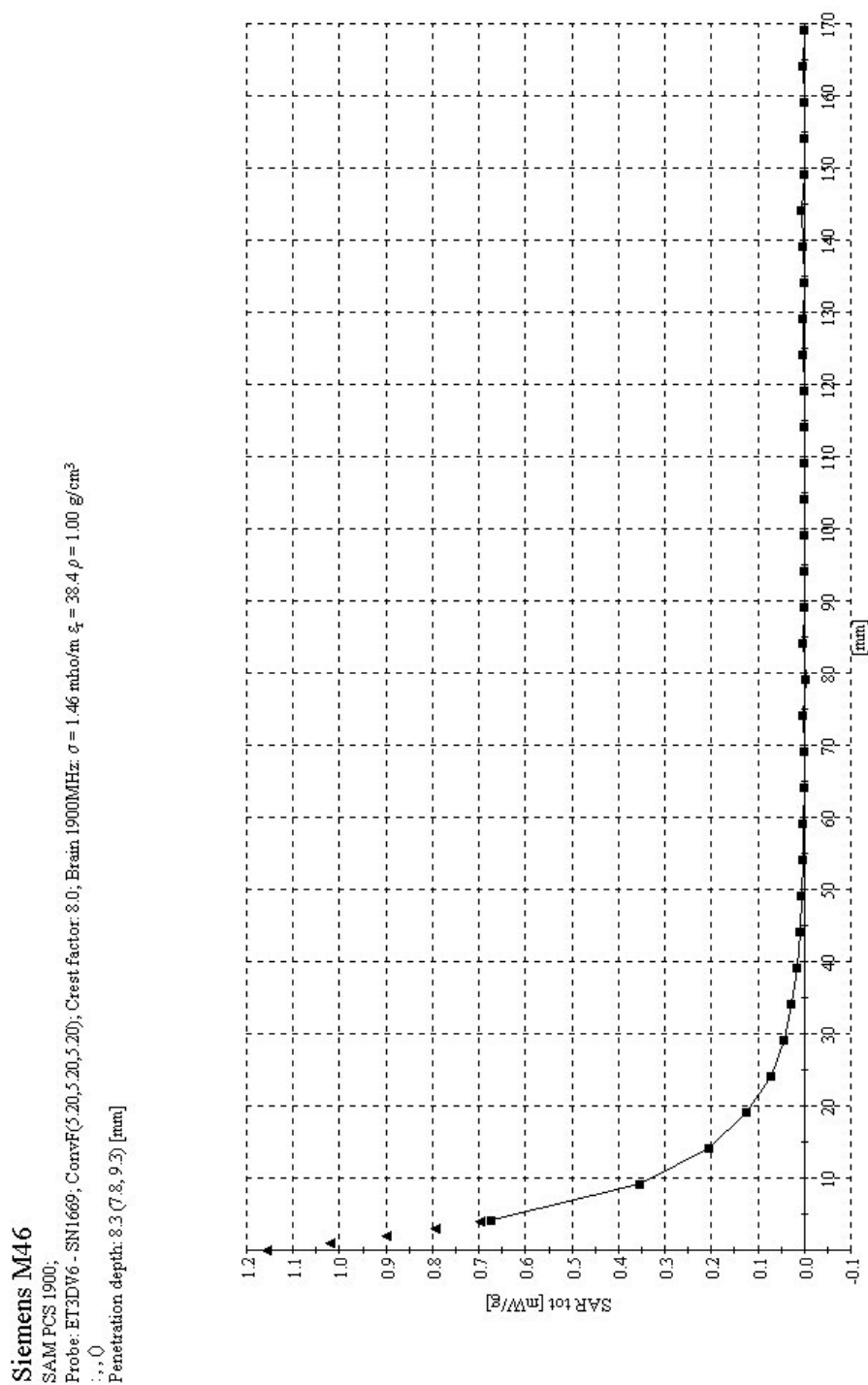


Fig. 7: SAR versus liquid depth at the location with the highest value: PCS 1900, channel 512, tilted position, right head side.

Siemens M46

SAM PCS1900,

Probe: ET3DV6 - SN1669; ConvF(480,480,480); Crest factor: 8.0; body 1900 MHz: $\sigma = 1.53 \text{ mho/m}$ $\epsilon_r = 51.1$ $\rho = 1.00 \text{ g/cm}^3$

...;

Penetration depth: 10.3 (9.0, 12.1) [mm]

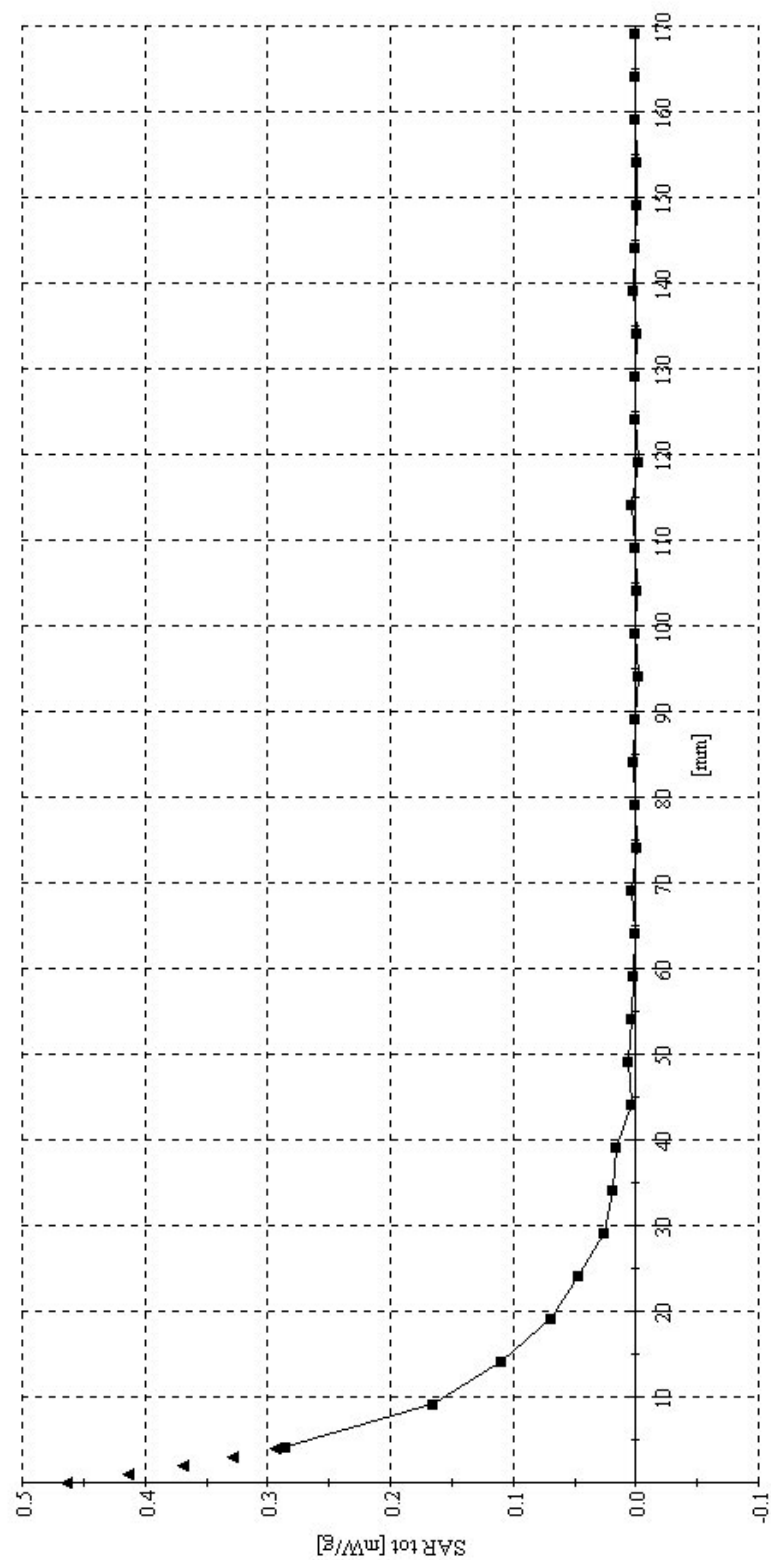


Fig. 8: SAR versus liquid depth at the location with the highest value: PCS 1900, channel 512, body worn configuration, belt clip with headset