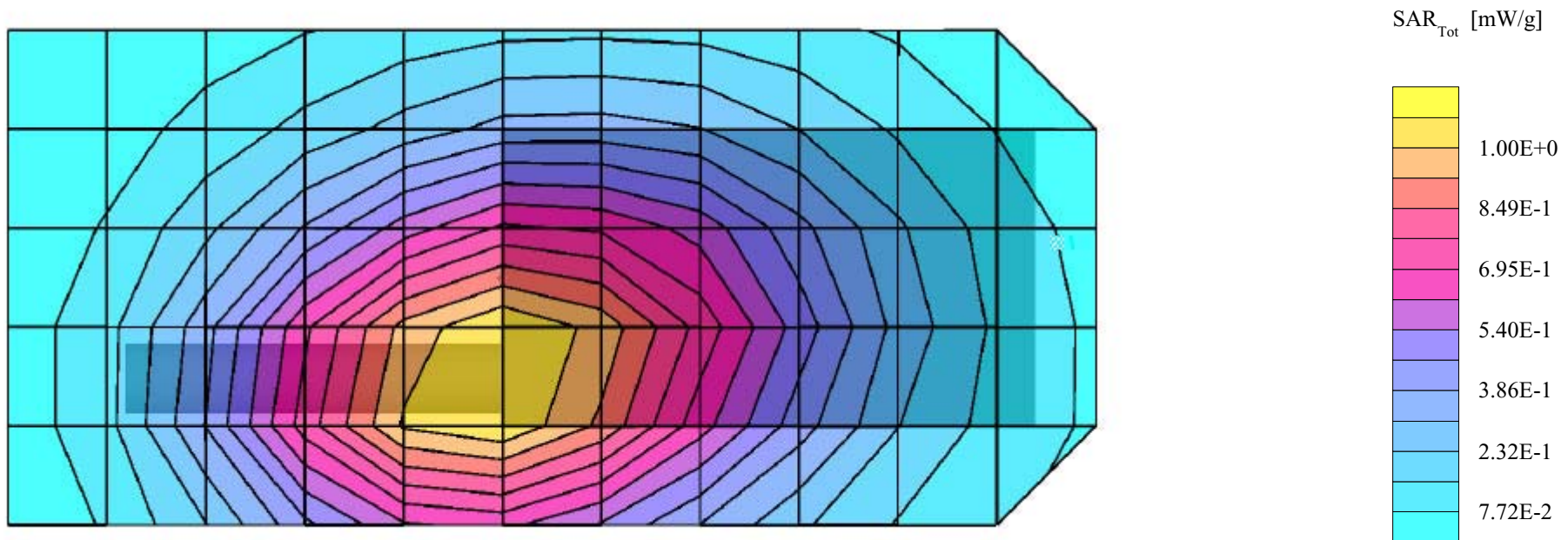


## APPENDIX A - SAR MEASUREMENT DATA

## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section; Position: (90°,270°)  
Probe: ET3DV6 - SN1387; ConvF(7.50,7.50,7.50); Crest factor: 1.0  
450 MHz Brain:  $\sigma = 0.84$  mho/m  $\epsilon_r = 43.2$   $\rho = 1.00$  g/cm<sup>3</sup>  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Cube 5x5x7  
SAR (1g): 0.757 mW/g, SAR (10g): 0.538 mW/g

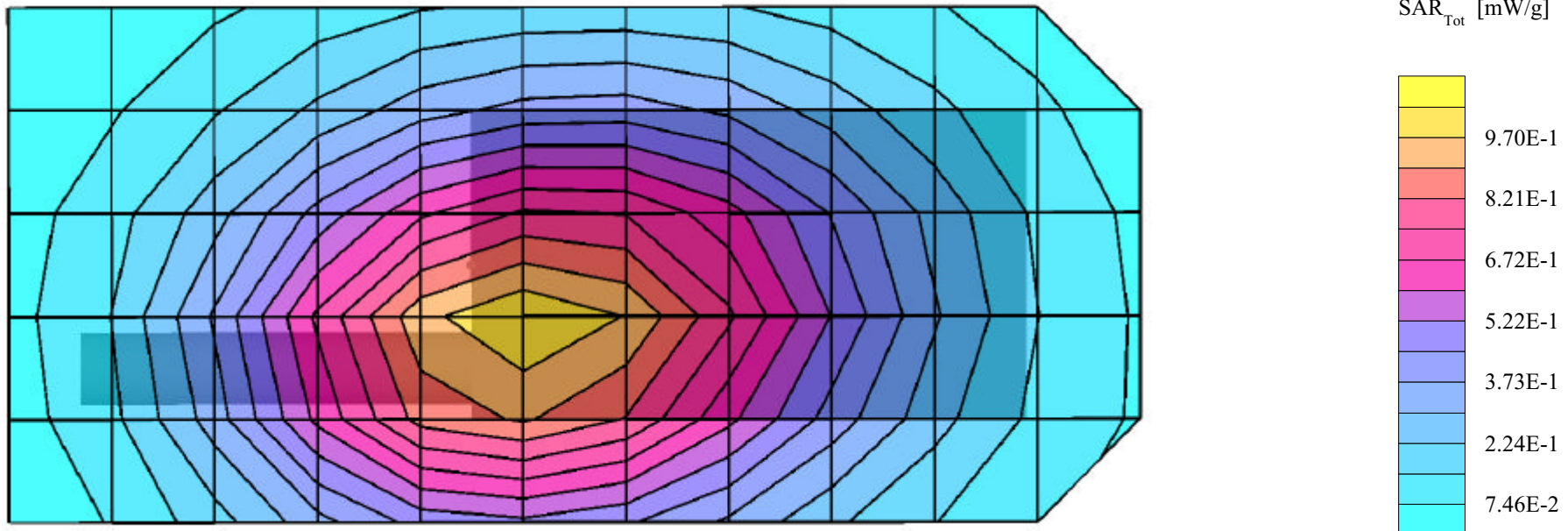
Face-held SAR at 2.5 cm Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
Low Channel [450.1 MHz]  
Conducted Power: 2.70 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.4 °C  
Date Tested: April 3, 2003



## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section; Position: (90°,270°)  
Probe: ET3DV6 - SN1387; ConvF(7.50,7.50,7.50); Crest factor: 1.0  
450 MHz Brain:  $\sigma = 0.84$  mho/m  $\epsilon_r = 43.2$   $\rho = 1.00$  g/cm<sup>3</sup>  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Cube 5x5x7  
SAR (1g): 0.954 mW/g, SAR (10g): 0.676 mW/g

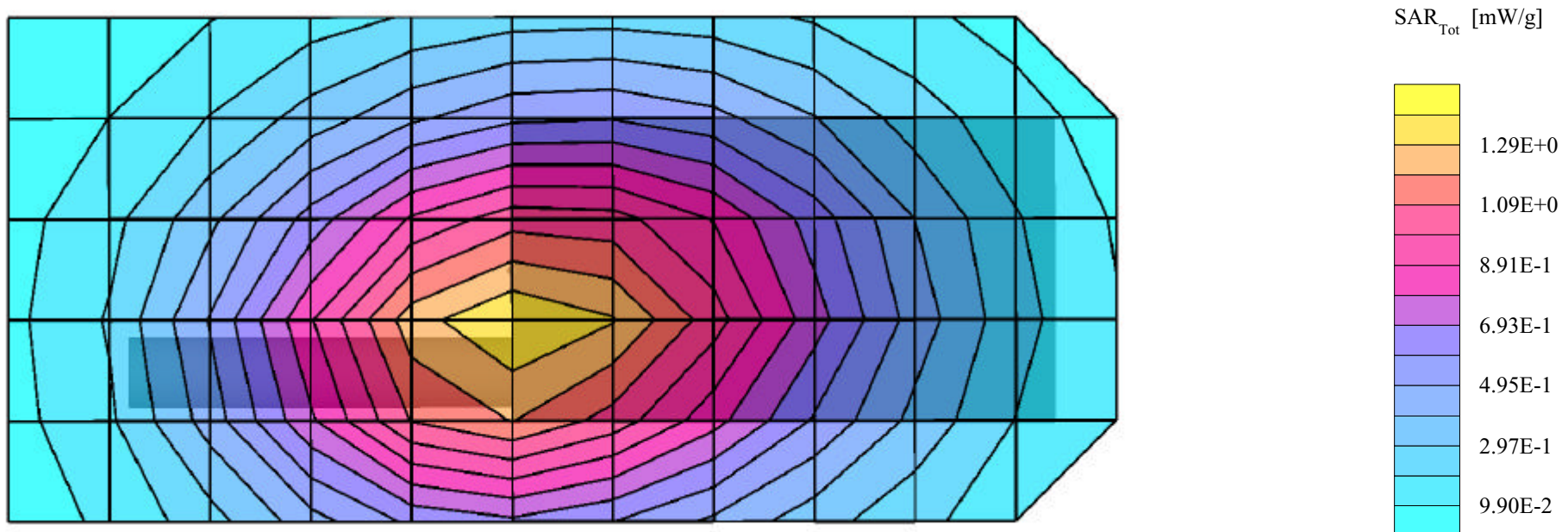
Face-held SAR at 2.5 cm Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
Mid Channel [460.1 MHz]  
Conducted Power: 2.73 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.4 °C  
Date Tested: April 3, 2003



# Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section; Position: (90°,270°)  
Probe: ET3DV6 - SN1387; ConvF(7.50,7.50,7.50); Crest factor: 1.0  
450 MHz Brain:  $\sigma = 0.84$  mho/m  $\epsilon_r = 43.2$   $\rho = 1.00$  g/cm<sup>3</sup>  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Cube 5x5x7  
SAR (1g): 1.21 mW/g, SAR (10g): 0.866 mW/g

Face-held SAR at 2.5 cm Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
High Channel [469.9 MHz]  
Conducted Power: 2.72 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.4 °C  
Date Tested: April 3, 2003

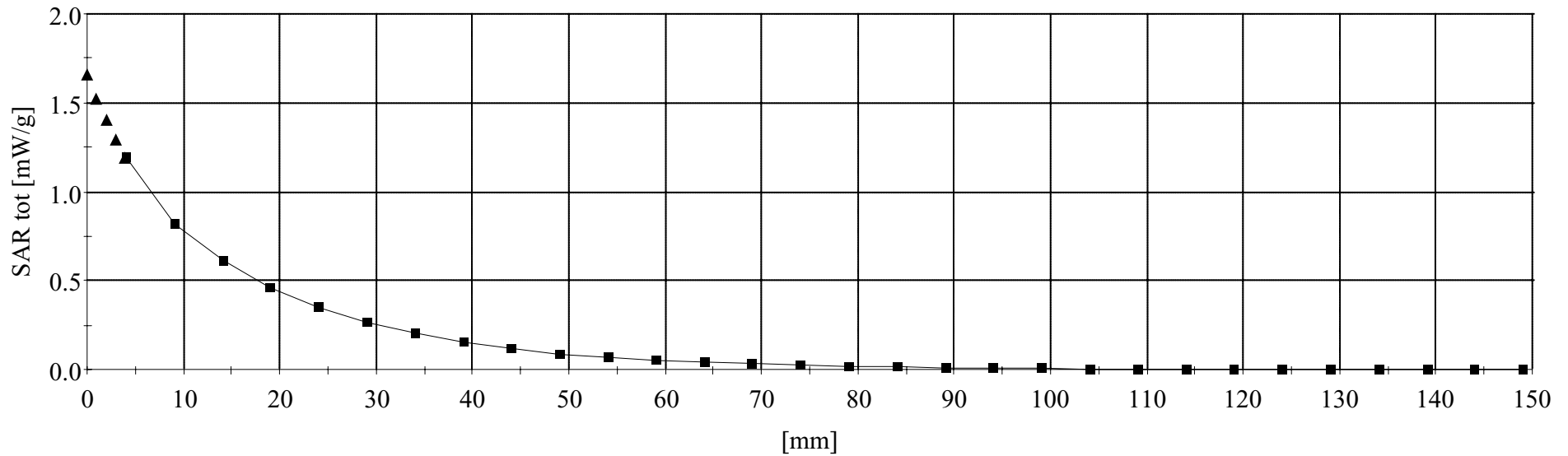


## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section  
Probe: ET3DV6 - SN1387; ConvF(7.50,7.50,7.50); Crest factor: 1.0  
450 MHz Brain:  $\sigma = 0.84$  mho/m  $\epsilon_r = 43.2$   $\rho = 1.00$  g/cm<sup>3</sup>

Z-Axis Extrapolation at Peak SAR Location

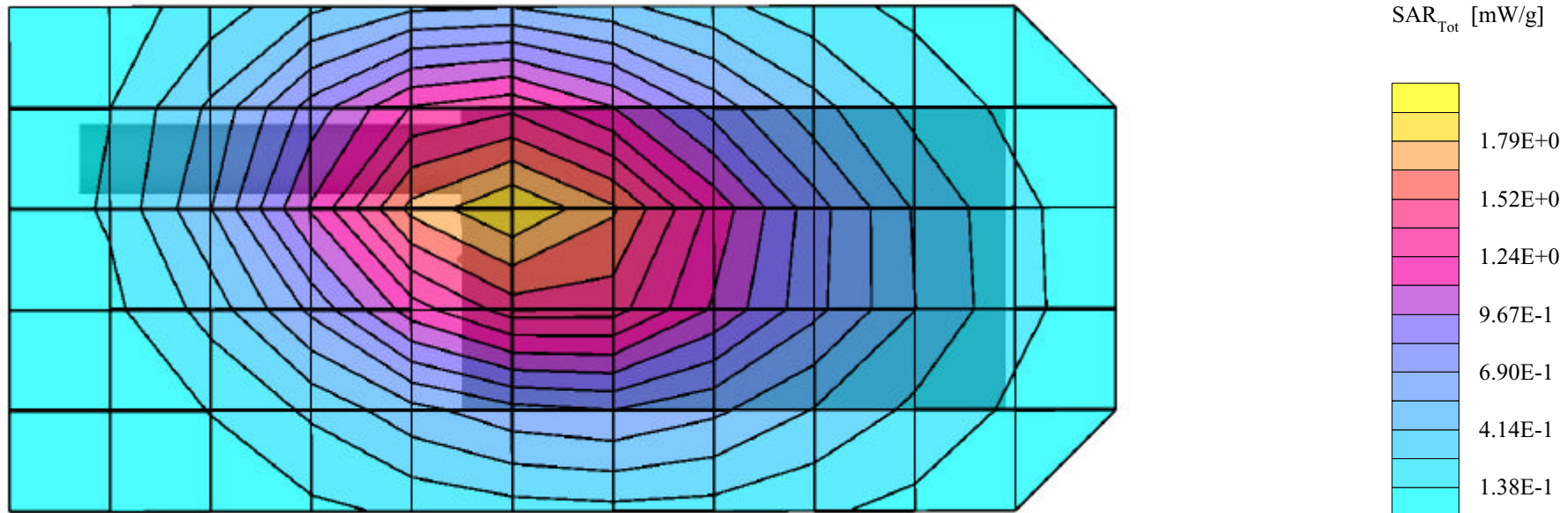
Face-held SAR at 2.5 cm Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
High Channel [469.9 MHz]  
Conducted Power: 2.72 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.4 °C  
Date Tested: April 3, 2003



## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section; Position: (270°,90°)  
Probe: ET3DV6 - SN1387; ConvF(7.70,7.70,7.70); Crest factor: 1.0  
450 MHz Muscle:  $\sigma = 0.93$  mho/m  $\epsilon_r = 58.5$   $\rho = 1.00$  g/cm<sup>3</sup>  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Cube 5x5x7  
SAR (1g): 1.71 mW/g, SAR (10g): 1.20 mW/g

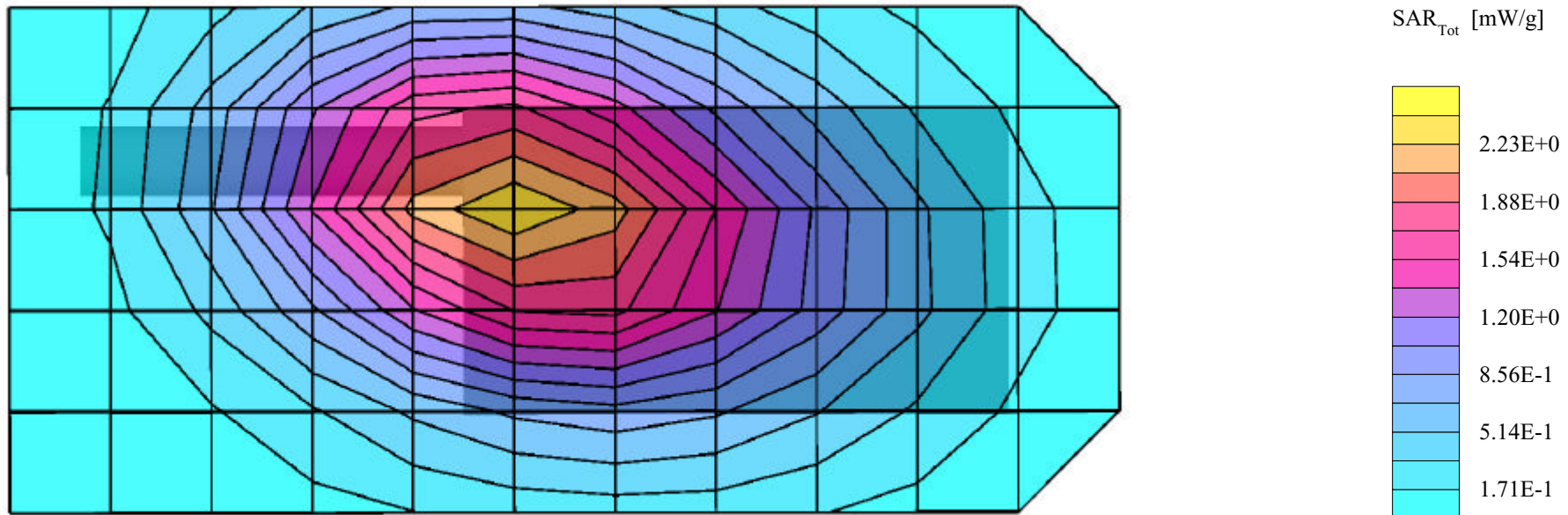
Body SAR with 1.3 cm Belt-Clip Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
with Lapel Ear-Microphone Accessory  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
Low Channel [450.1 MHz]  
Conducted Power: 2.70 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.3 °C  
Date Tested: April 3, 2003



## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section; Position: (270°,90°)  
Probe: ET3DV6 - SN1387; ConvF(7.70,7.70,7.70); Crest factor: 1.0  
450 MHz Muscle:  $\sigma = 0.93$  mho/m  $\epsilon_r = 58.5$   $\rho = 1.00$  g/cm<sup>3</sup>  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Cube 5x5x7  
SAR (1g): 2.15 mW/g, SAR (10g): 1.50 mW/g

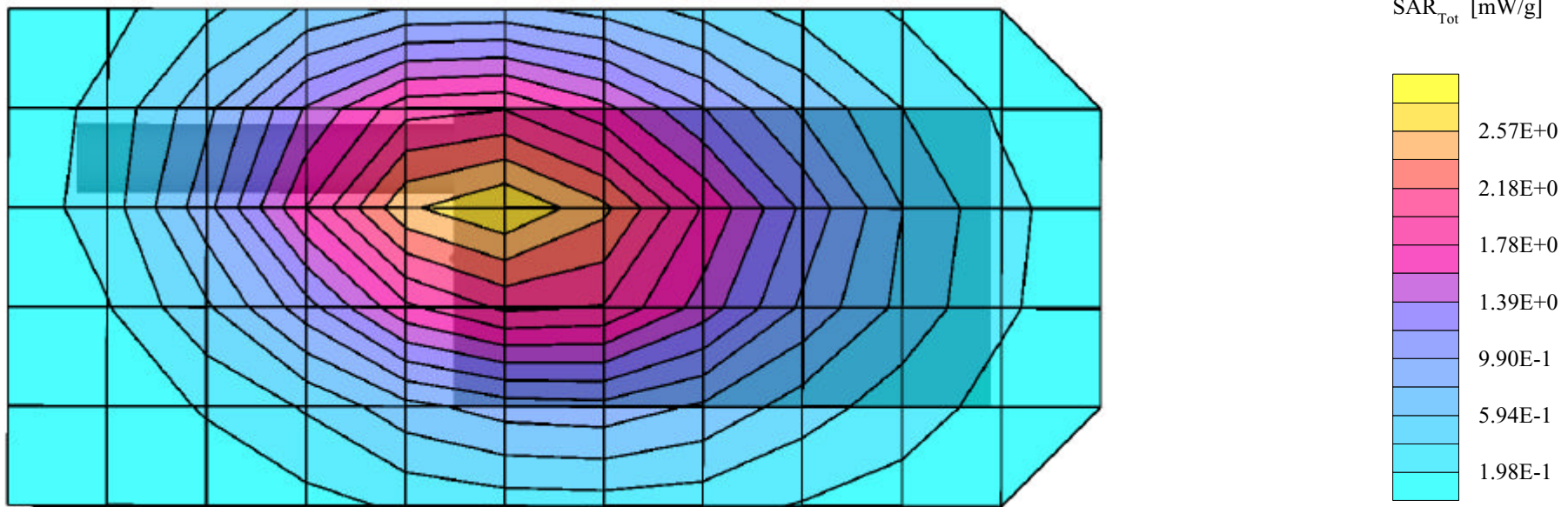
Body SAR with 1.3 cm Belt-Clip Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
with Lapel Ear-Microphone Accessory  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
Mid Channel [460.1 MHz]  
Conducted Power: 2.72 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.3 °C  
Date Tested: April 3, 2003



## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section; Position: (270°,90°)  
Probe: ET3DV6 - SN1387; ConvF(7.70,7.70,7.70); Crest factor: 1.0  
450 MHz Muscle:  $\sigma = 0.93$  mho/m  $\epsilon_r = 58.5$   $\rho = 1.00$  g/cm<sup>3</sup>  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Cube 5x5x7  
SAR (1g): 2.33 mW/g, SAR (10g): 1.65 mW/g

Body SAR with 1.3 cm Belt-Clip Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
with Lapel Ear-Microphone Accessory  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
High Channel [469.9 MHz]  
Conducted Power: 2.71 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.3 °C  
Date Tested: April 3, 2003





## Advanced Wireless Communications FCC ID: Q9S04032108

SAM Phantom; Flat Section  
Probe: ET3DV6 - SN1387; ConvF(7.70,7.70,7.70); Crest factor: 1.0  
450 MHz Muscle:  $\sigma = 0.93$  mho/m  $\epsilon_r = 58.5$   $\rho = 1.00$  g/cm<sup>3</sup>

Z-Axis Extrapolation at Peak SAR Location

Body SAR with 1.3 cm Belt-Clip Separation Distance  
AWR2108 UHF Portable Radio Transceiver  
with Lapel Ear-Microphone Accessory  
8.4V Lithium-ion Battery  
Continuous Wave Mode  
High Channel [469.9 MHz]  
Conducted Power: 2.71 Watts  
Ambient Temp 23.1 °C; Fluid Temp 21.3 °C  
Date Tested: April 3, 2003

