

## ***APPENDIX B - DIPOLE VALIDATION***

## Validation Dipole D900V2 SN:054, d = 15 mm

Frequency: 900 MHz; Antenna Input Power: 250 [mW]

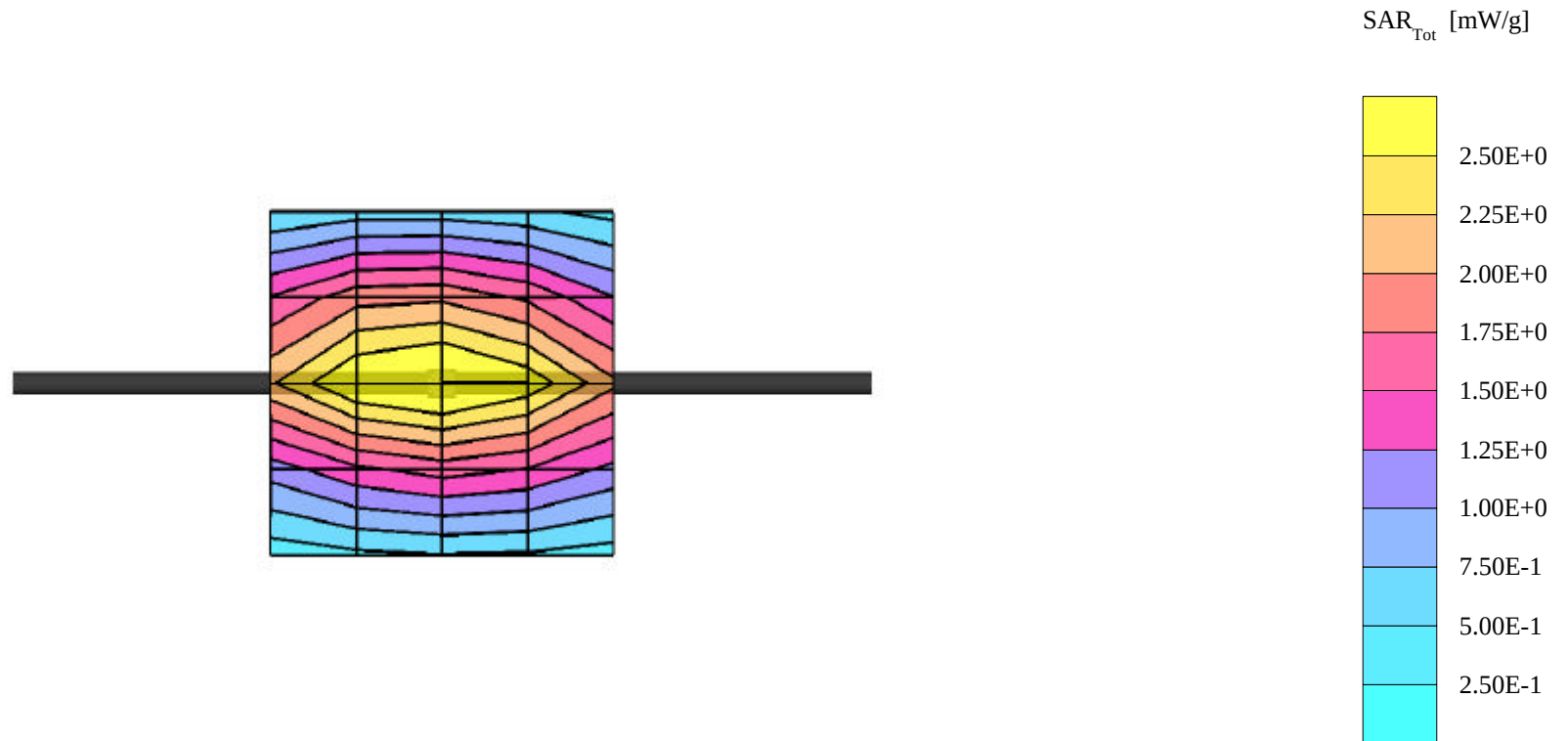
Generic Twin Phantom; Flat Section; Grid Spacing: Dx = 15.0, Dy = 15.0, Dz = 10.0

Probe: ET3DV6 - SN1507; ConvF(6.27,6.27,6.27); Crest factor: 1.0; IEEE1528 900 MHz:  $\sigma = 0.97$  mho/m  $\epsilon_r = 42.4$   $\rho = 1.00$  g/cm<sup>3</sup>

Cubes (2): Peak: 4.47 mW/g  $\pm 0.05$  dB, SAR (1g): 2.78 mW/g  $\pm 0.04$  dB, SAR (10g): 1.76 mW/g  $\pm 0.02$  dB, (Worst-case extrapolation)

Penetration depth: 11.5 (10.3, 13.2) [mm]

Powerdrift: -0.00 dB



## Dipole 900 MHz

Frequency: 900 MHz; Conducted Input Power: 250 [mW]

Small Planar Phantom; Planar Section

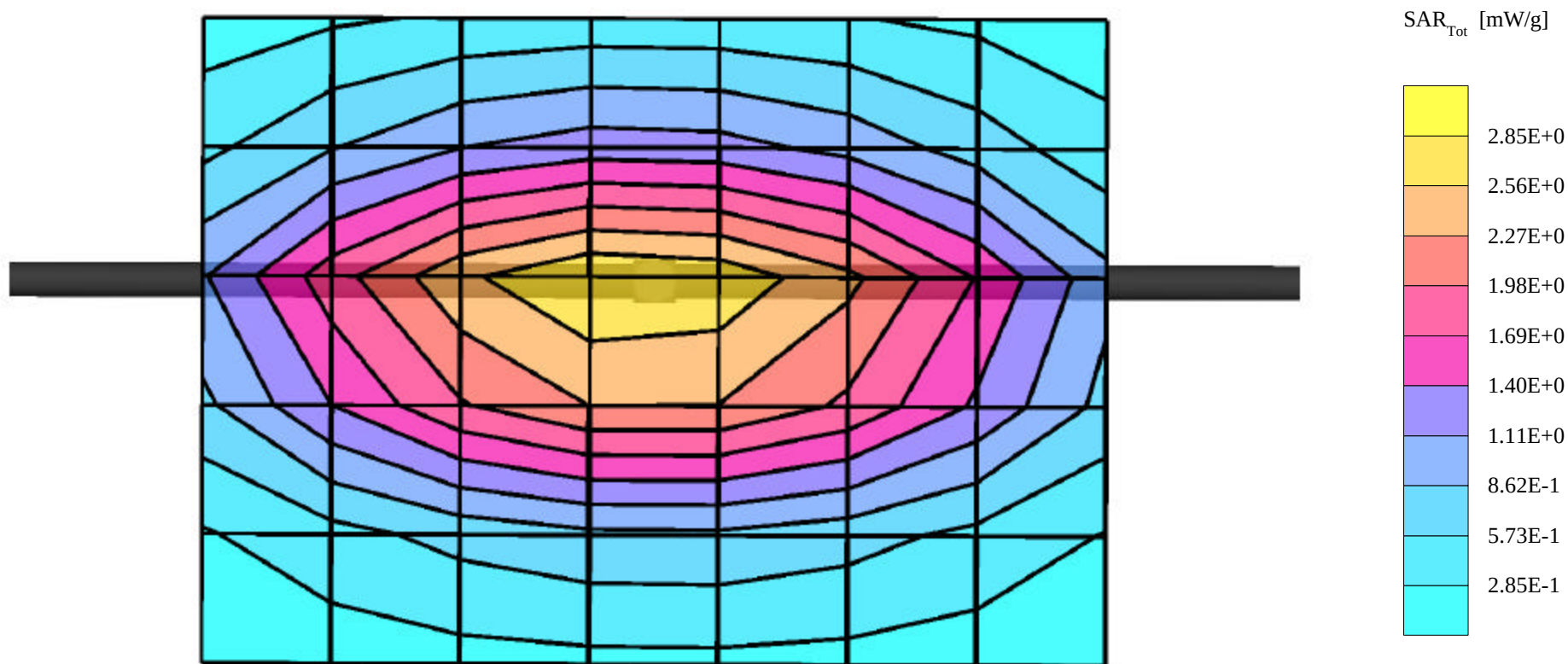
Probe: ET3DV6 - SN1590; ConvF(6.83,6.83,6.83); Crest factor: 1.0; 900 MHz Brain:  $\sigma = 0.97$  mho/m  $\epsilon_r = 41.5$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: Peak: 4.50 mW/g, SAR (1g): 2.75 mW/g, SAR (10g): 1.74 mW/g, (Worst-case extrapolation)

Penetration depth: 11.4 (10.3, 12.8) [mm]

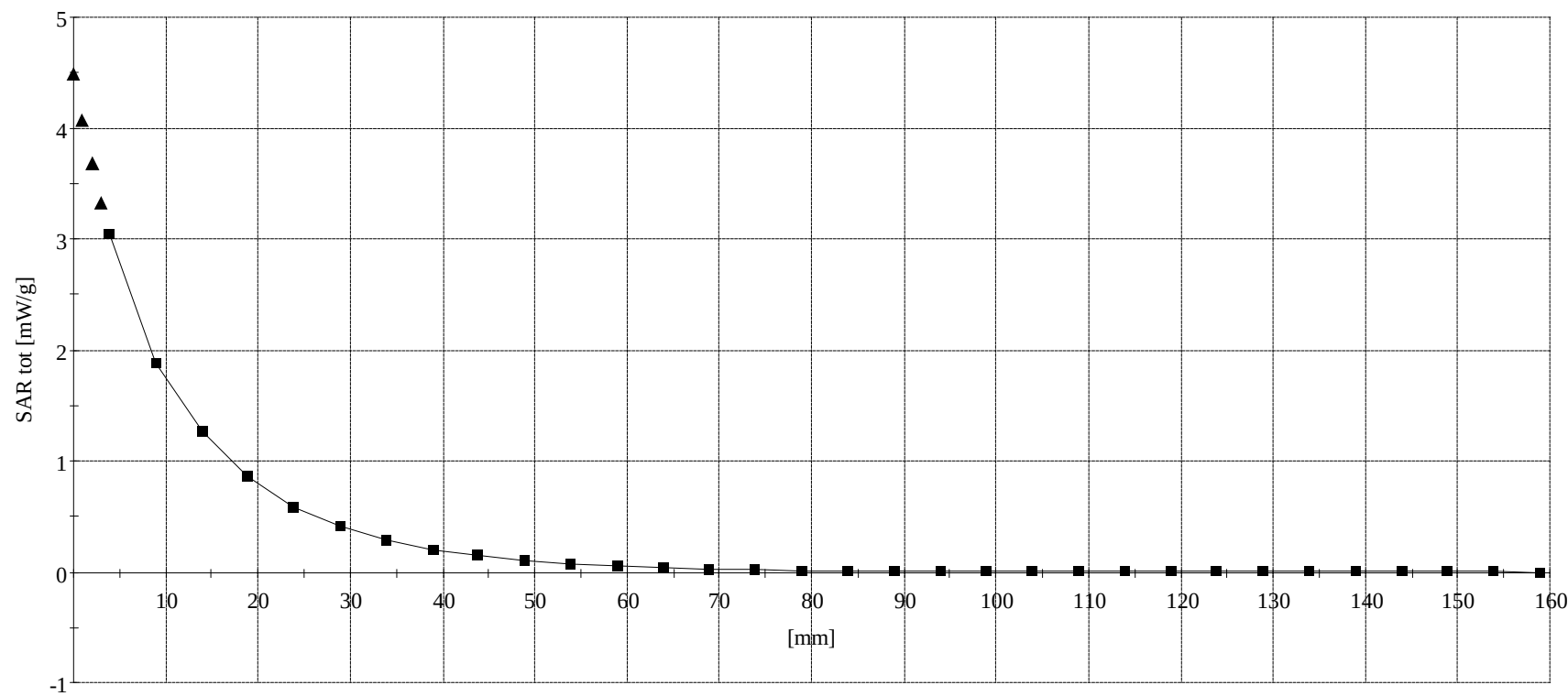
Powerdrift: -0.02 dB

Calibration Date: Nov. 27, 2001



Dipole 900 MHz  
Small Planar Phantom; Section; Position:  
Probe: ET3DV6 - SN1590; ConvF(6.83,6.83,6.83); Crest factor: 1.0  
900 MHz Brain:  $\sigma = 0.97$  mho/m  $\epsilon_r = 41.5$   $\rho = 1.00$  g/cm<sup>3</sup>  
Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Conducted Power: 250 mW  
Date Teseted: November 27, 2001



## Dipole 900 MHz

Frequency: 900 MHz; Conducted Input Power: 250 [mW]

Small Planar Phantom; Planar Section

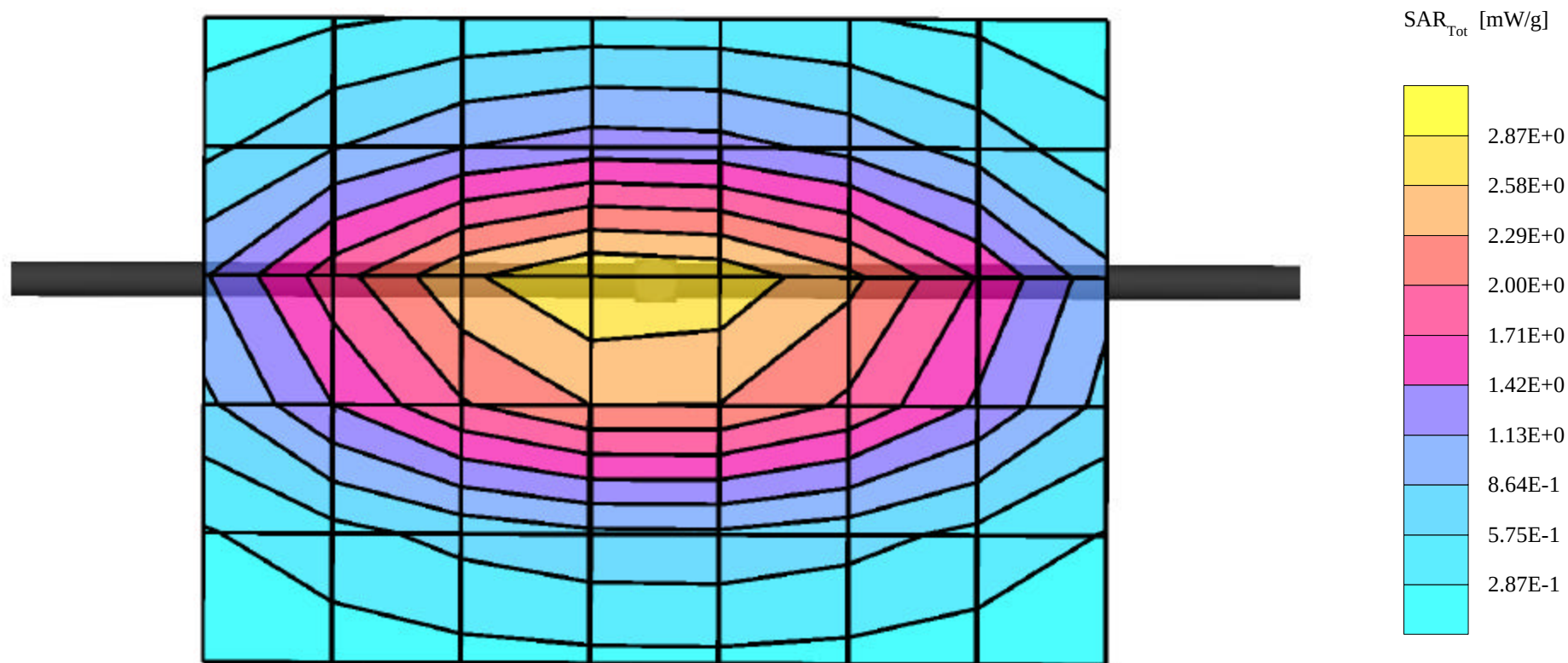
Probe: ET3DV6 - SN1590; ConvF(6.83,6.83,6.83); Crest factor: 1.0; 900 MHz Brain:  $\sigma = 0.97$  mho/m  $\epsilon_r = 41.5$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: Peak: 4.51 mW/g, SAR (1g): 2.77 mW/g, SAR (10g): 1.75 mW/g, (Worst-case extrapolation)

Penetration depth: 11.4 (10.3, 12.8) [mm]

Powerdrift: -0.02 dB

Calibration Date: Dec. 7, 2001



Dipole 900 MHz  
Small Planar Phantom; Section; Position:  
Probe: ET3DV6 - SN1590; ConvF(6.83,6.83,6.83); Crest factor: 1.0  
900 MHz Brain:  $\sigma = 0.97$  mho/m  $\epsilon_r = 41.5$   $\rho = 1.00$  g/cm<sup>3</sup>  
Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Conducted Power: 250 mW  
Date Teseted: December 7, 2001

