

APPENDIX B:  
SAR Distribution Plots  
For  
Model SE47

**Section 1**  
**SAR Distribution plots for Head Adjacent Use Configuration**

07/11/03

**SE47**

CDMA-800 ch383 Left Cheek Antenna Extended

Liquid Temp = 22C +/- 1deg.C

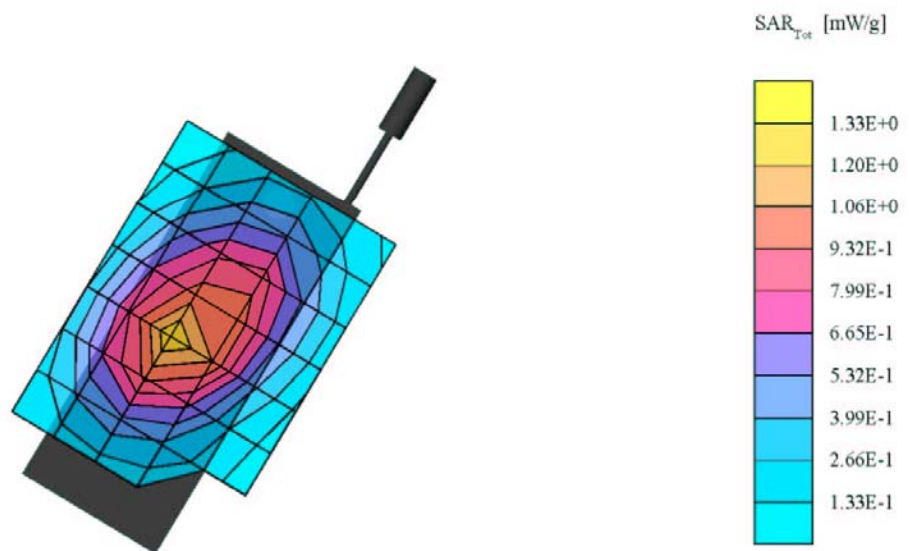
SAM Phantom; Left Hand Section; Position: (90°,59°); Frequency: 835 MHz

 Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 1.22 mW/g, SAR (10g): 0.814 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.63 dB



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**SE47**

CDMA-800 ch383 Left Cheek Antenna Extended

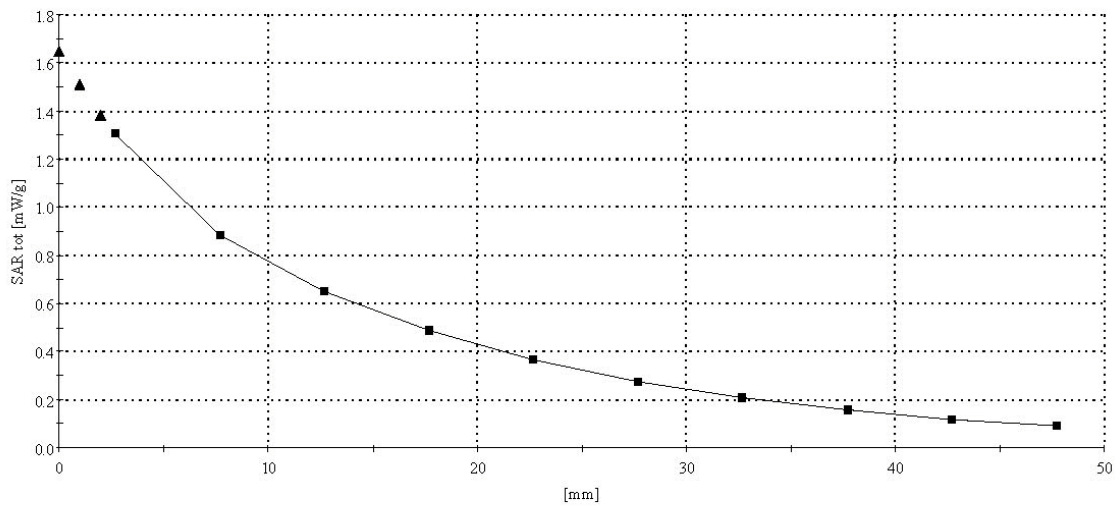
Liquid Temp = 22C $\pm$  1deg.C

SAM Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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**SE47**

CDMA-800 ch383 Left Tilt Antenna Extended

 Liquid Temp = 22C<sup>±</sup> 1deg.C

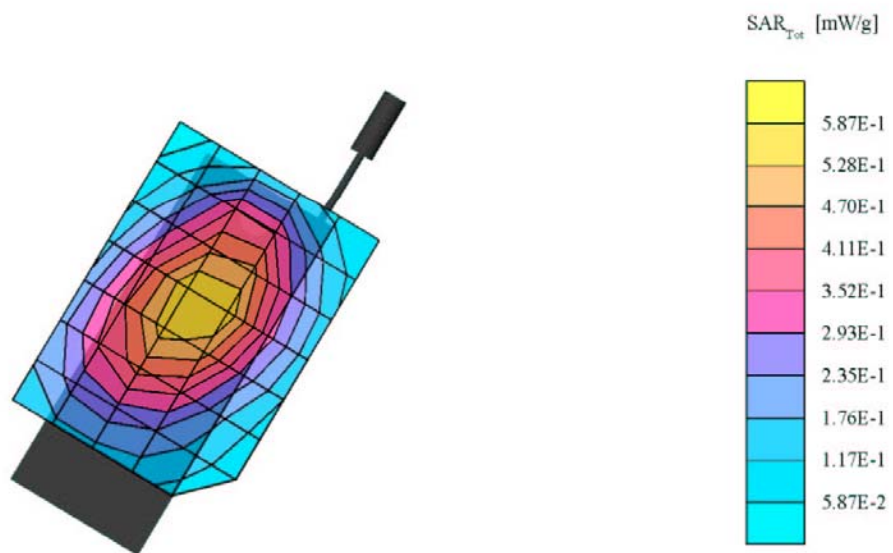
SAM Phantom; Left Hand Section; Position: (90°,59°); Frequency: 835 MHz

 Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 0.579 mW/g, SAR (10g): 0.414 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.08 dB



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CDMA-800 ch383 Left Tilt Antenna Extended

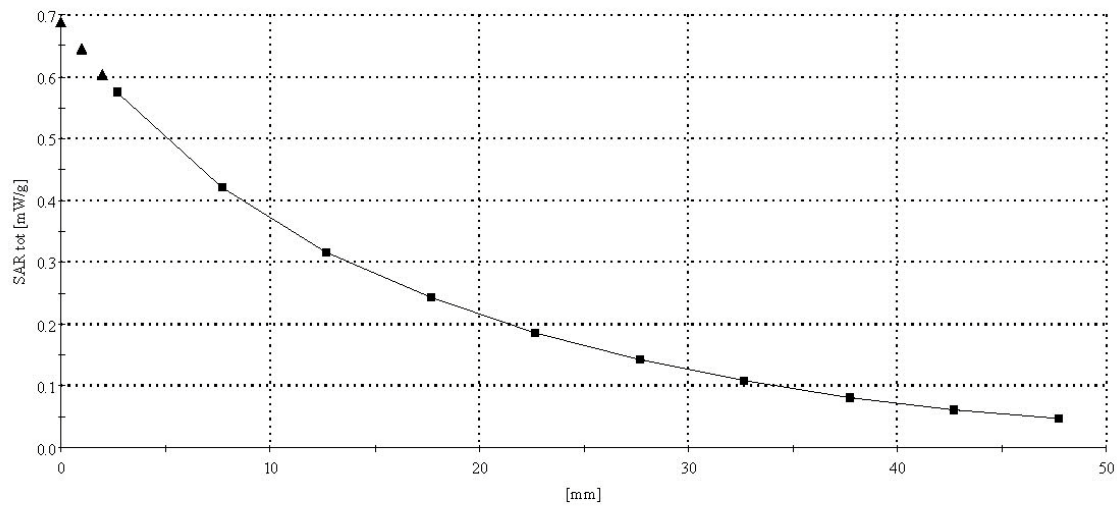
Liquid Temp = 22C $\pm$  1deg.C

SAM Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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CDMA-800 ch383 Right Cheek Antenna Extended

 Liquid Temp = 22C<sup>±</sup> 1deg.C

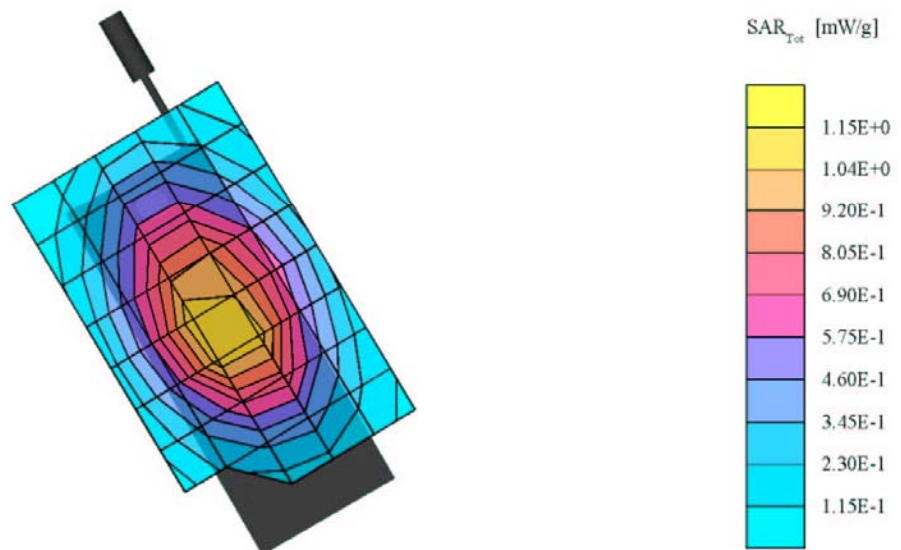
SAM Phantom, Right Hand Section, Position: (90°,300°); Frequency: 835 MHz

 Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 1.17 mW/g, SAR (10g): 0.787 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.08 dB



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CDMA-800 ch383 Right Cheek Antenna Extended

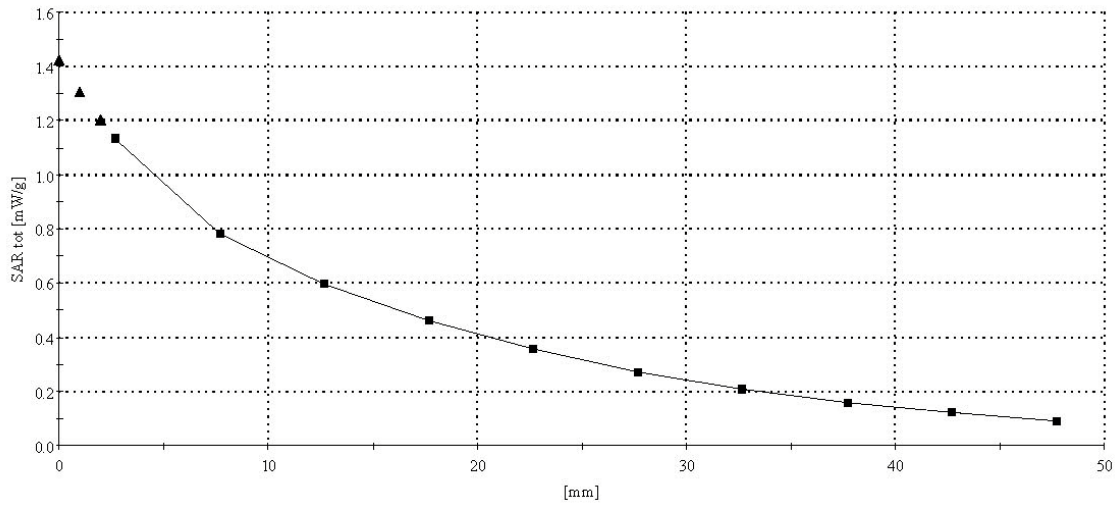
Liquid Temp = 22C $\pm$ 1deg.C

SAM Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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**SE47**

CDMA-800 ch383 Right Tilt Antenna Extended

 Liquid Temp = 22C<sup>+/-</sup> 1deg.C

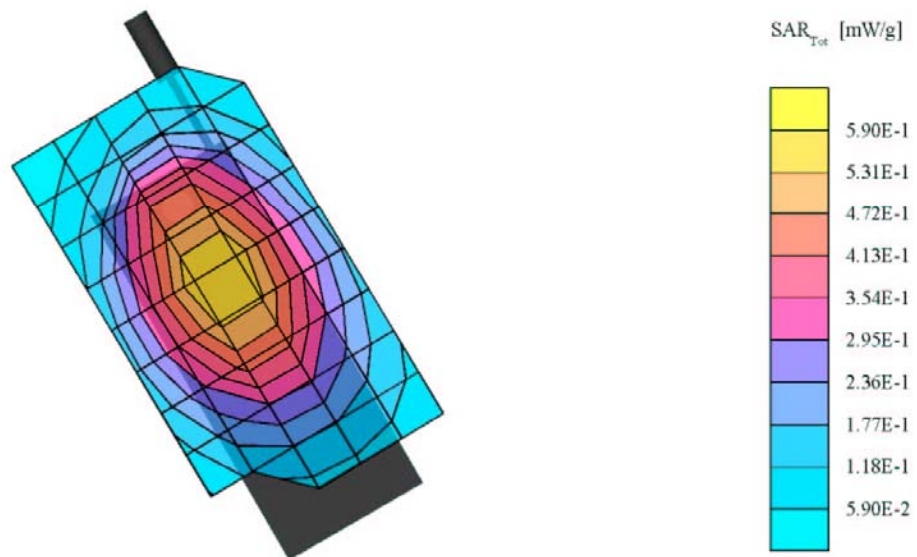
SAM Phantom; Right Hand Section; Position: (90°,300°); Frequency: 835 MHz

 Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 0.575 mW/g, SAR (10g): 0.415 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.03 dB



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## SE47

CDMA-800 ch383 Right Tilt Antenna Extended

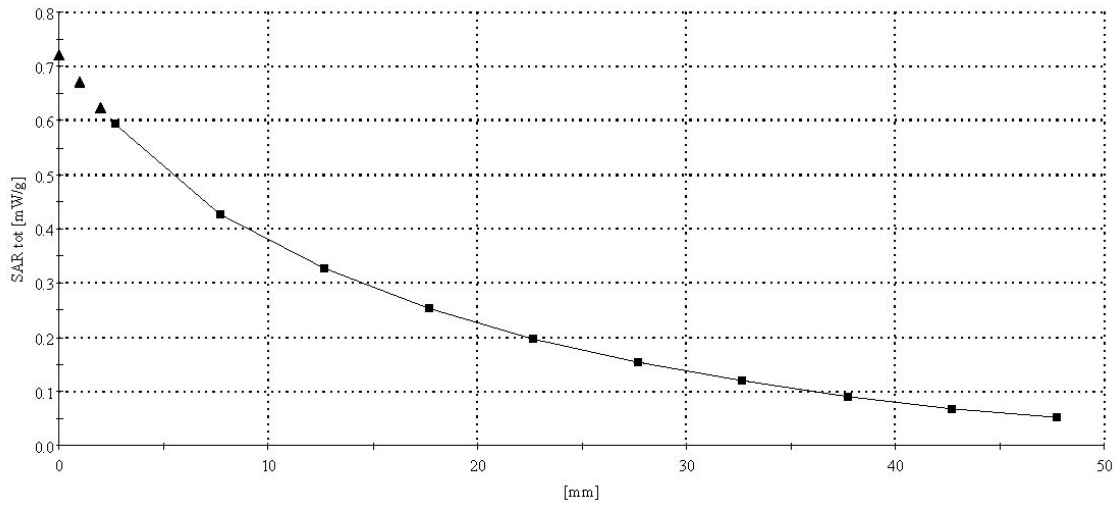
Liquid Temp = 22C $\pm$ 1deg.C

SAM Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.50,6.50,6.50); Crest factor: 1.0; 835 MHz Brain:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.6$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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CDMA-1900 ch25 Left Cheek, Antenna Extended

Liquid Temp = 22C<sup>±</sup> 1deg.C

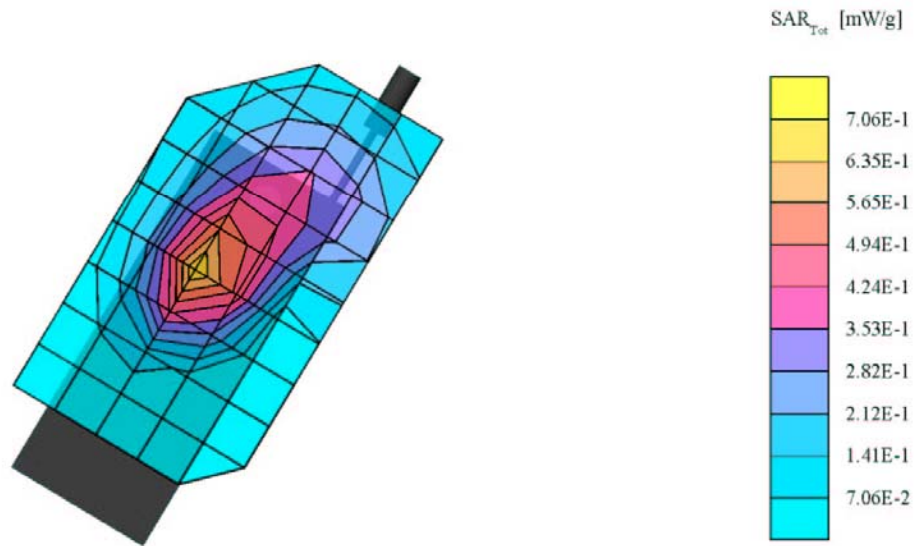
SAM Phantom; Left Hand Section; Position: (90°,59°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 0.657 mW/g, SAR (10g): 0.378 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.13 dB



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CDMA-1900 ch25 Left Cheek, Antenna Extended

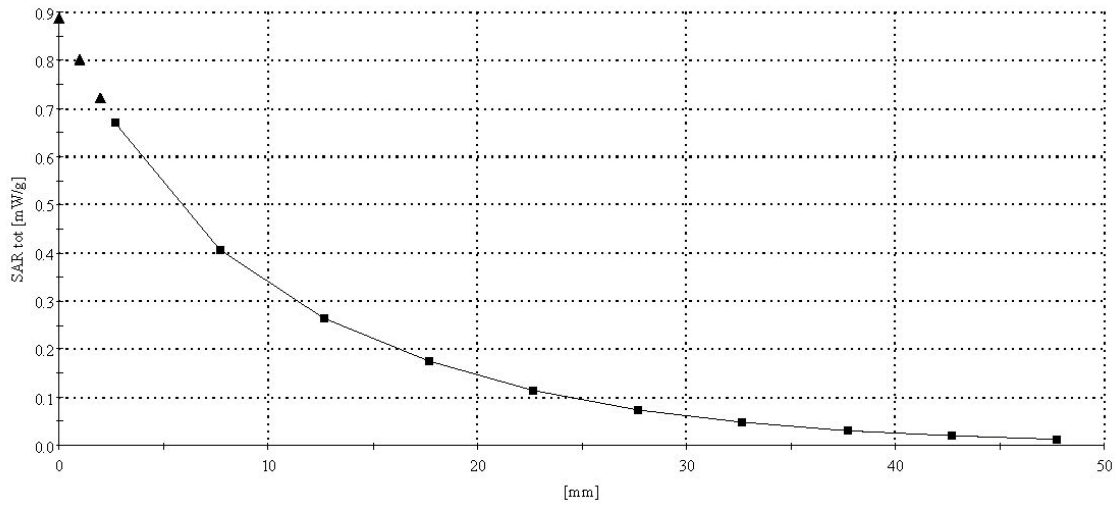
Liquid Temp = 22C $\pm$  1deg.C

SAM Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0)

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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CDMA-1900 ch25 Left Tilt, Antenna Extended

Liquid Temp = 22C<sup>±</sup> 1deg.C

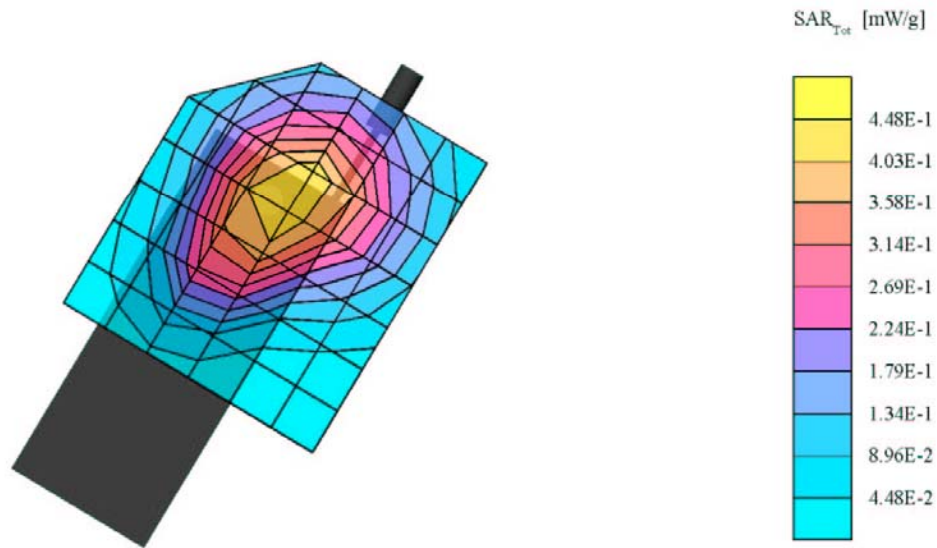
SAM Phantom; Left Hand Section; Position: (90°,59°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 0.438 mW/g, SAR (10g): 0.264 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.06 dB



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CDMA-1900 ch25 Left Tilt, Antenna Extended

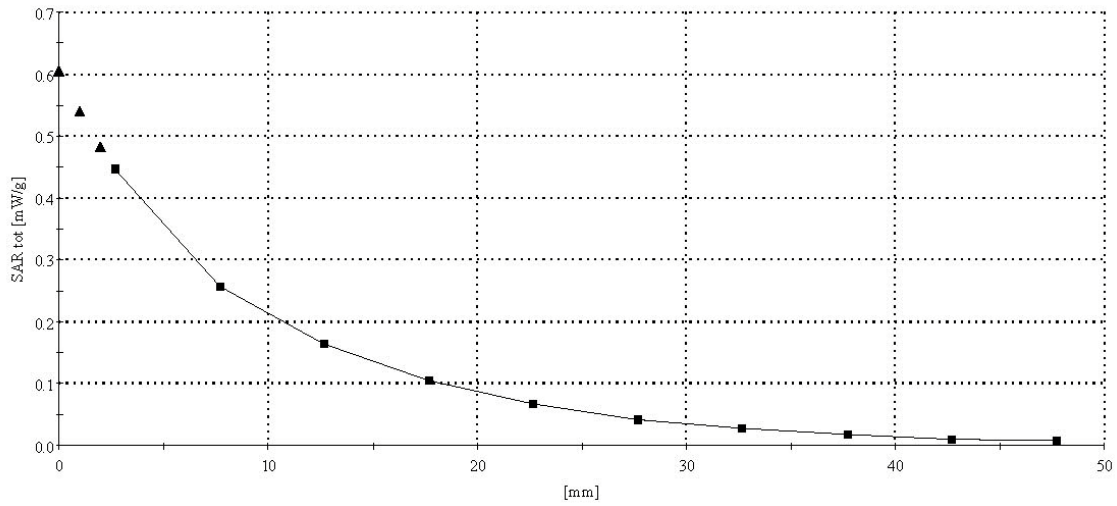
Liquid Temp = 22C $\pm$  1deg.C

SAM Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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**SE47**

CDMA-1900 ch25 Right Cheek, Antenna Extended

 Liquid Temp = 22C<sup>+/-</sup> 1deg.C

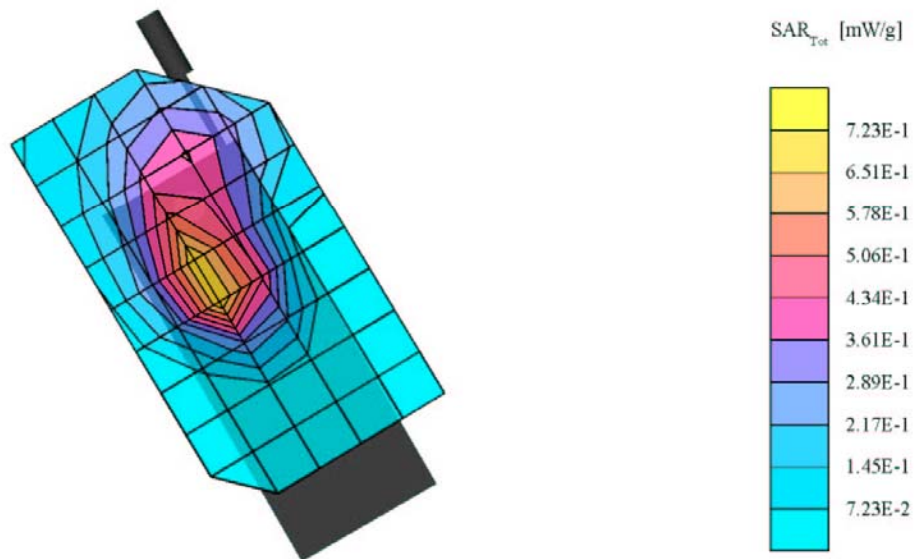
SAM Phantom; Right Hand Section; Position: (90°,300°); Frequency: 1900 MHz

 Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 0.695 mW/g, SAR (10g): 0.397 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.17 dB



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CDMA-1900 ch25 Right Cheek, Antenna Extended

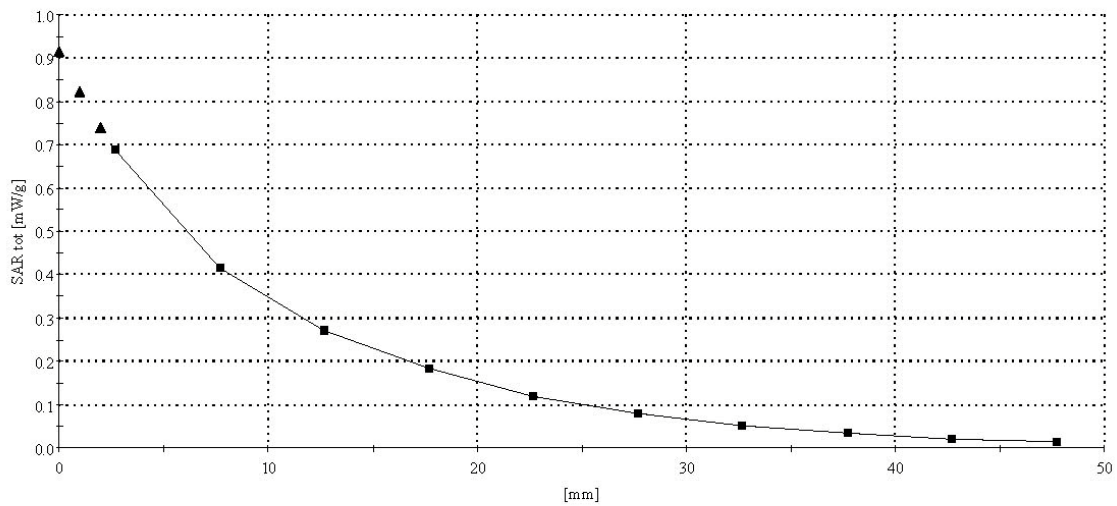
Liquid Temp = 22C $\pm$  1deg.C

SAM Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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CDMA-1900 ch25 Right Tilt, Antenna Extended

Liquid Temp = 22C +/- 1deg.C

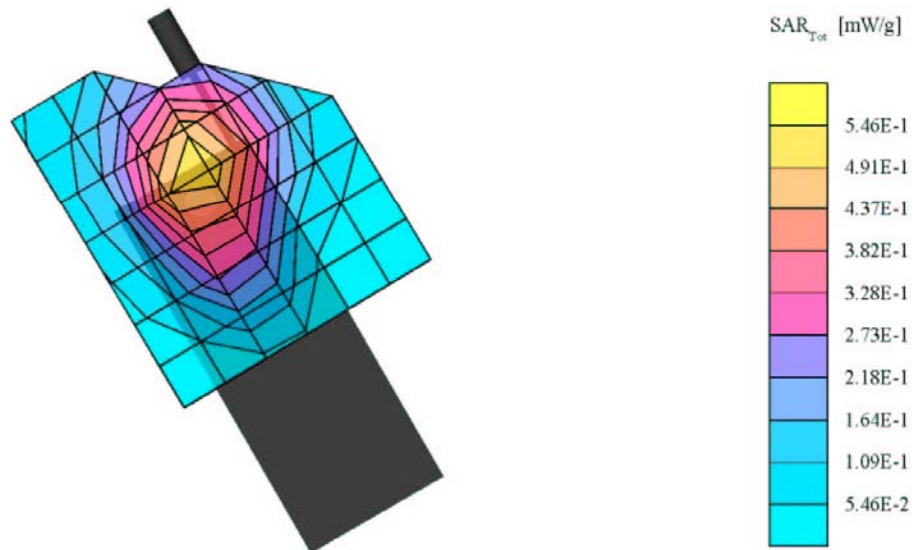
SAM Phantom; Right Hand Section; Position: (90°,300°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46 \text{ mho/m}$ ,  $\epsilon_r = 39.9$ ,  $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.530 mW/g, SAR (10g): 0.314 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.10 dB



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CDMA-1900 ch25 Right Tilt, Antenna Extended

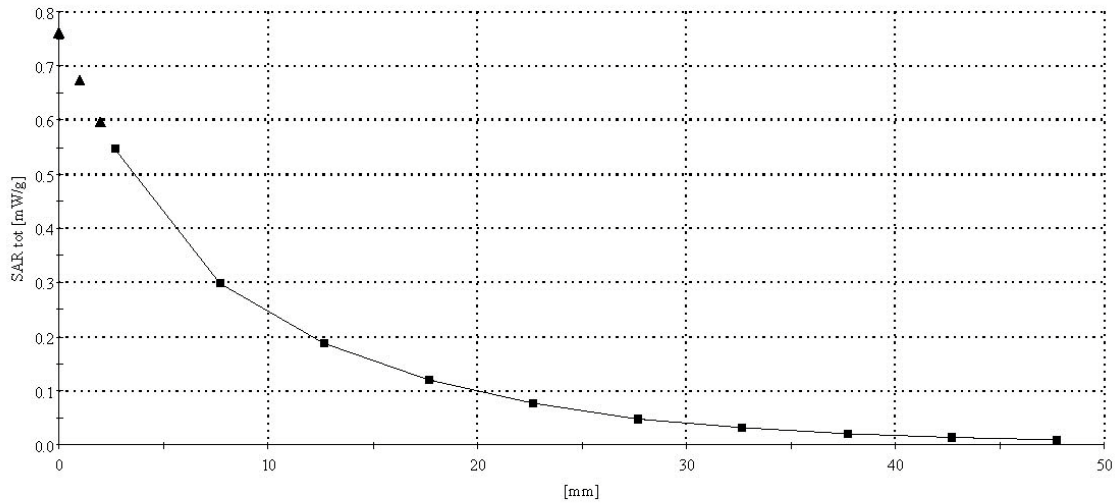
Liquid Temp = 22C $\pm$  1deg.C

SAM Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.40,5.40,5.40); Crest factor: 1.0; 1900 MHz Brain:  $\sigma = 1.46$  mho/m  $\epsilon_r = 39.9$   $\rho = 1.00$  g/cm<sup>3</sup>

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



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Section 2  
SAR Distribution plots for Body Worn Configuration

07/10/03

SE47

CDMA-1900 ch25 Flat with Belt Clip, Antenna Extended

Liquid Temp = 22C +/- 1deg.C

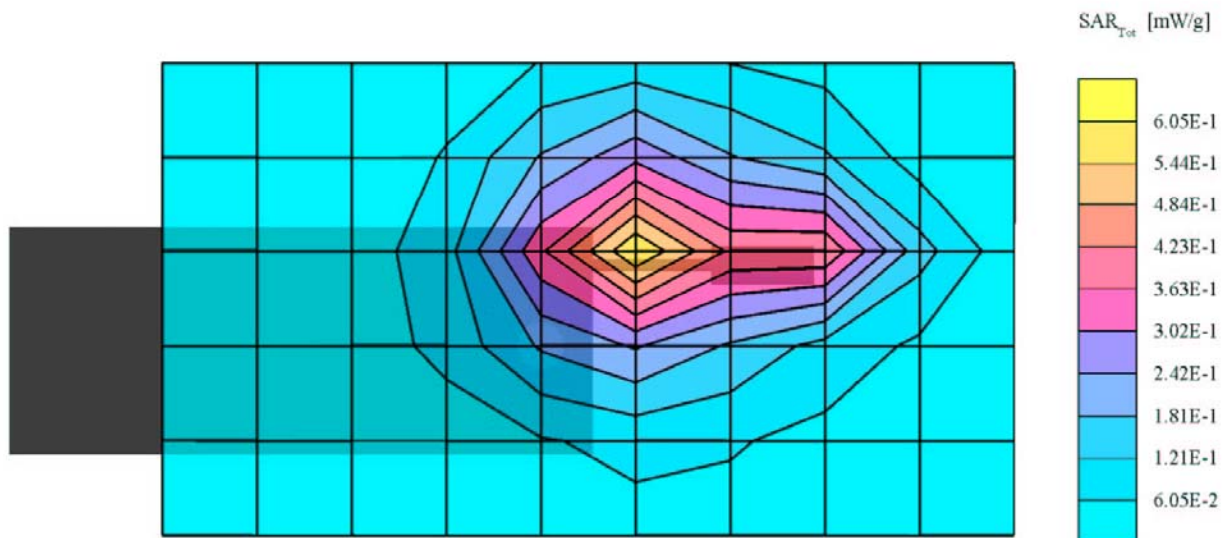
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle:  $\sigma = 1.44 \text{ mho/m}$   $\epsilon_r = 52.5$   $\rho = 1.00 \text{ g/cm}^3$

Cube 7x7x7: SAR (1g): 0.562 mW/g, SAR (10g): 0.333 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.02 dB



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07/10/03

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CDMA-1900 ch25 Flat with Belt Clip, Antenna Extended

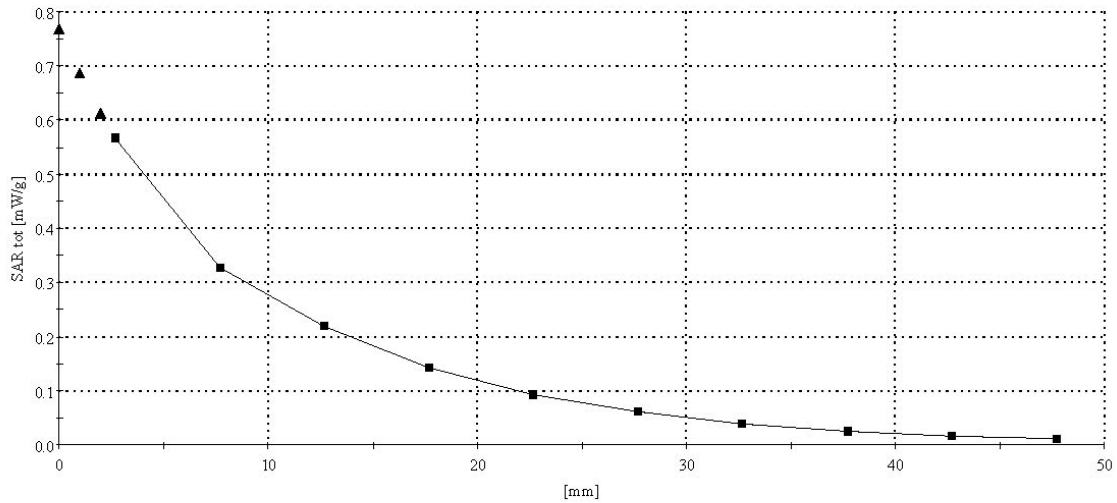
Liquid Temp = 22C +/- 1deg.C

SAM Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle:  $\sigma = 1.44 \text{ mho/m}$   $\epsilon_r = 52.5$   $\rho = 1.00 \text{ g/cm}^3$

; , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

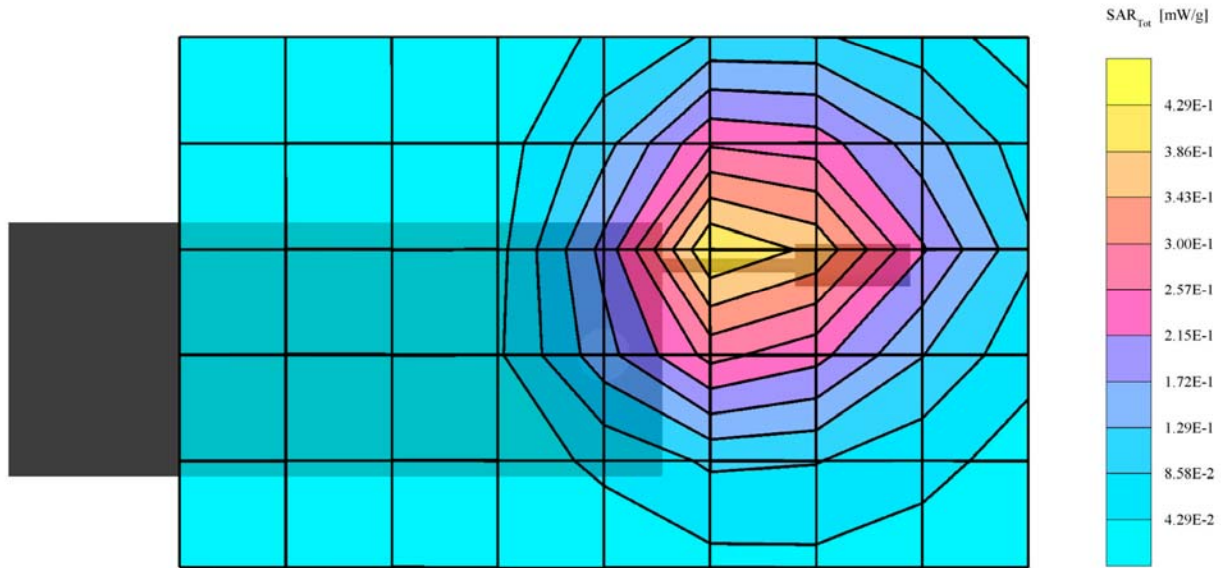


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CDMA-1900 ch600 Flat with Belt Clip, Antenna Extended  
 Liquid Temp = 22C +/- 1deg C  
 SAM Phantom, Flat Section, Position: (90°,90°); Frequency: 1900 MHz  
 Probe: ET3DV6 - SN1712; ConvF(5.00,5.00,5.00); Crest factor: 1.0; 1900 MHz Muscle:  $\sigma = 1.51 \text{ mho/m}$ ,  $\epsilon_r = 53.6$ ,  $\rho = 1.00 \text{ g/cm}^3$   
 Cube 7x7x7: SAR (1g): 0.395 mW/g, SAR (10g): 0.243 mW/g, (Worst-case extrapolation)  
 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
 Powerdrift: -0.02 dB



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07/11/03

SE47

CDMA-800 ch383 Flat with Belt Clip, Antenna Extended

Liquid Temp = 22C+/- 1deg.C

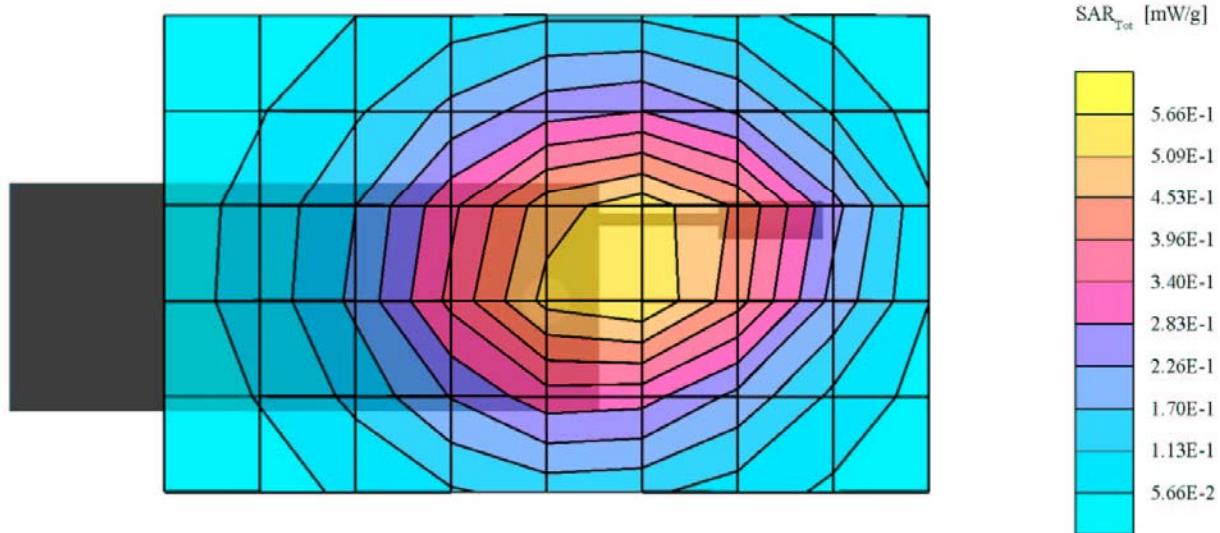
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle:  $\sigma = 0.97$  mho/m  $\epsilon_r = 53.4$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 7x7x7: SAR (1g): 0.559 mW/g, SAR (10g): 0.393 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.08 dB



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CDMA-800 ch383 Flat with Belt Clip, Antenna Extended

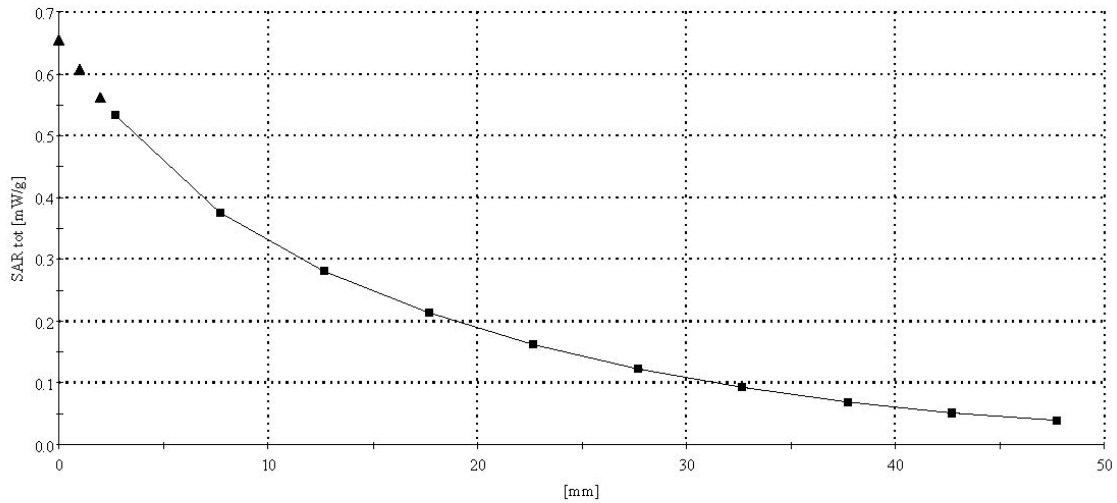
Liquid Temp = 22C +/- 1deg.C

SAM Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1712; ConvF(6.30,6.30,6.30); Crest factor: 1.0; 835 MHz Muscle:  $\sigma = 0.97 \text{ mho/m}$   $\epsilon_r = 53.4$   $\rho = 1.00 \text{ g/cm}^3$

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0



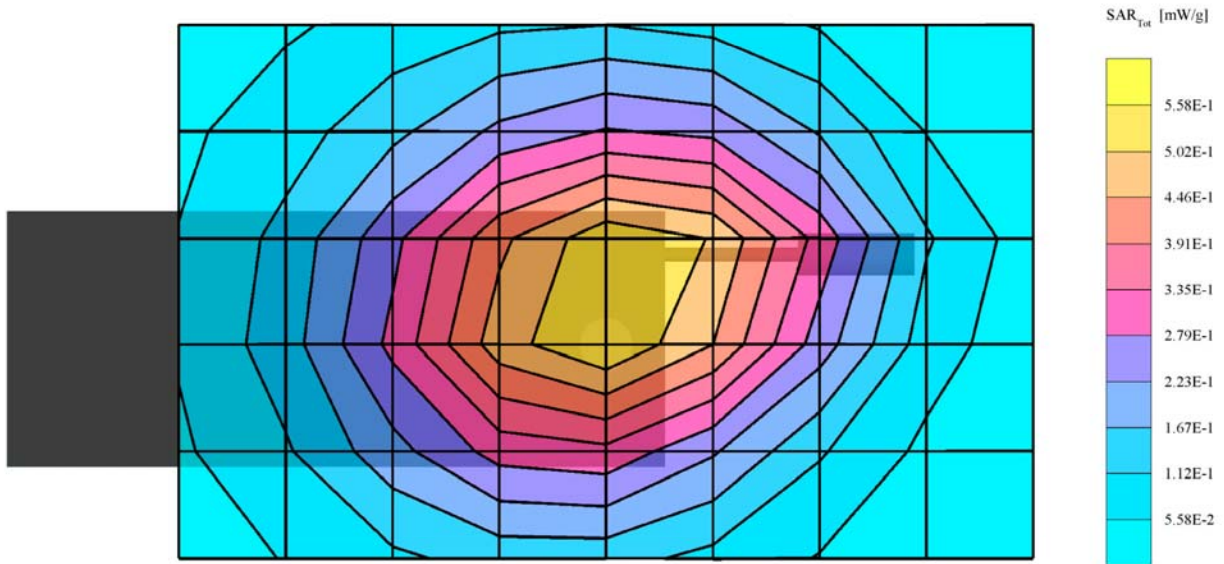
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07/21/03

SE47

CDMA-800 ch383 Flat with Belt Clip, Antenna Extended  
 Liquid Temp = 22C+- 1deg.C  
 SAM Phantom, Flat Section, Position: (90°,90°); Frequency: 835 MHz  
 Probe: ET3DV6 - SN1712; ConvF(6,30,6,30,6,30); Crest factor: 1.0; 835 MHz Muscle:  $\sigma = 0.96 \text{ mho/m}$ ,  $\epsilon_r = 54.5$ ,  $\rho = 1.00 \text{ g/cm}^3$   
 Cube 7x7x7: SAR (1g): 0.555 mW/g, SAR (10g): 0.391 mW/g, (Worst-case extrapolation)  
 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
 Powerdrift: -0.12 dB



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