



Certificate Number: 1449-02



**ELECTROMAGNETIC EXPOSURE (EME)
TESTING LABORATORY**

8000 West Sunrise Blvd.
Fort-Lauderdale, Florida

**S.A.R. TEST REPORT
(APPENDIX B)
FCC ID: AZ489FT5816
H46UCH9PW7AN**

August 23, 2001 - Rev. O

Tested By:	Eric Trospen SAR Test Technician
Tested By:	Stephen Whalen Senior Engineer
Tested and Prepared By:	Jim Fortier Lead Engineer
Reviewed and Approved By:	Ken Enger Sr. Resource Manager Product Safety and EME Lab Director

Appendix B: Dipole System Performance Check Results

835 CGISS Dipole 002

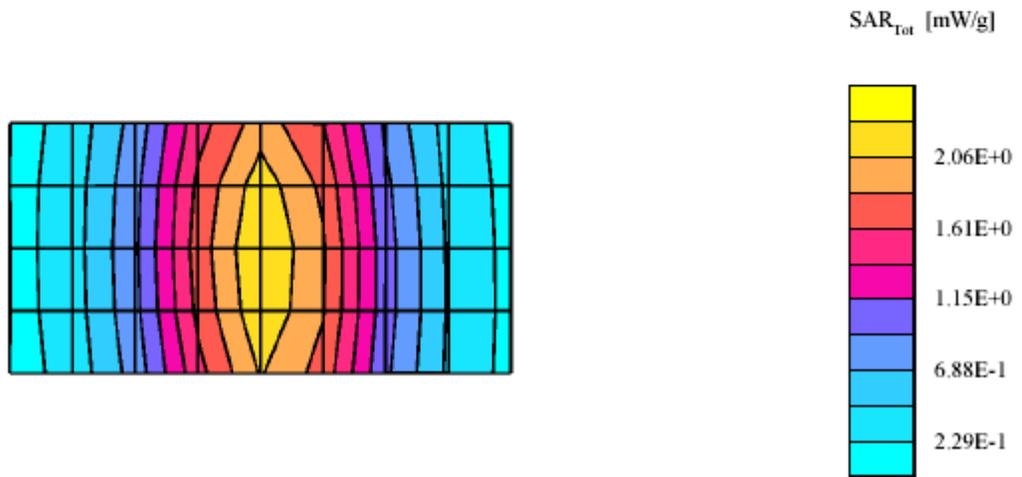
Dipole 835-002 Target @ 250mW is 2.22mW/g

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 56.9$ $\rho = 1.07$ g/cm³

Cube 5x5x7; Peak: 3.36 mW/g, SAR (1g): 2.20 mW/g, SAR (10g): 1.45 mW/g, (Worst-case extrapolation)

Penetration depth: 13.1 (11.7, 15.0) [mm]

Powerdrift: -0.00 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

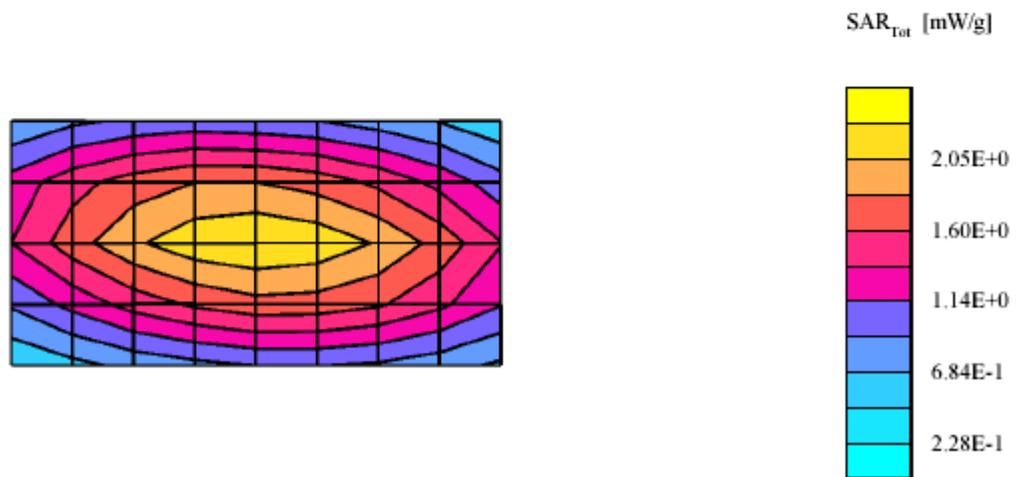
Target @ 250mW is 2.22mW/g

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 57.1$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.37 mW/g, SAR (1g): 2.19 mW/g, SAR (10g): 1.44 mW/g, (Worst-case extrapolation)

Penetration depth: 13.1 (11.7, 14.8) [mm]

Powerdrift: -0.04 dB



Dipole 835-002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

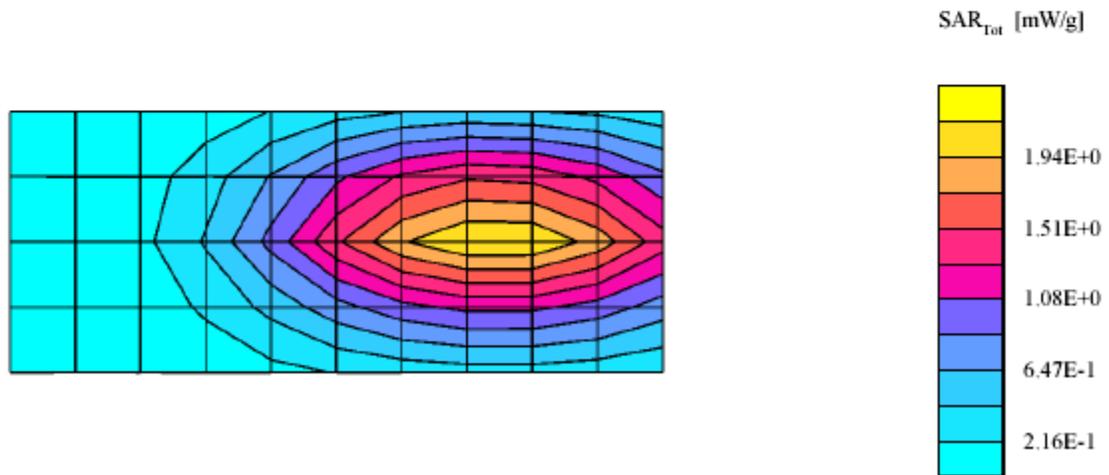
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 55.9$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.27 mW/g, SAR (1g): 2.15 mW/g, SAR (10g): 1.43 mW/g, (Worst-case extrapolation)

Penetration depth: 13.4 (11.8, 15.4) [mm]

Powerdrift: 0.01 dB



Dipole 835-002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

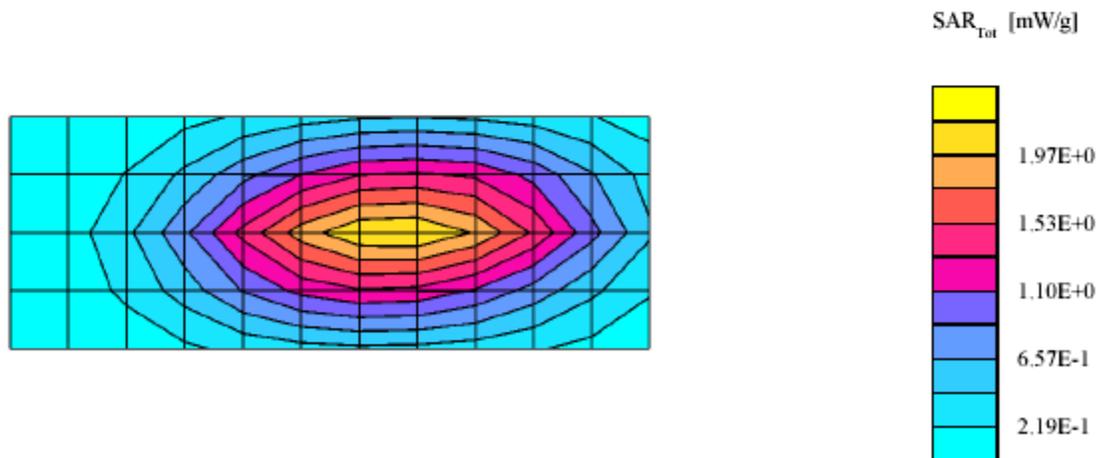
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.97$ mho/m $\epsilon_r = 55.1$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.21 mW/g, SAR (1g): 2.12 mW/g, SAR (10g): 1.42 mW/g, (Worst-case extrapolation)

Penetration depth: 13.6 (12.1, 15.4) [mm]

Powerdrift: -0.06 dB



Dipole 835-002

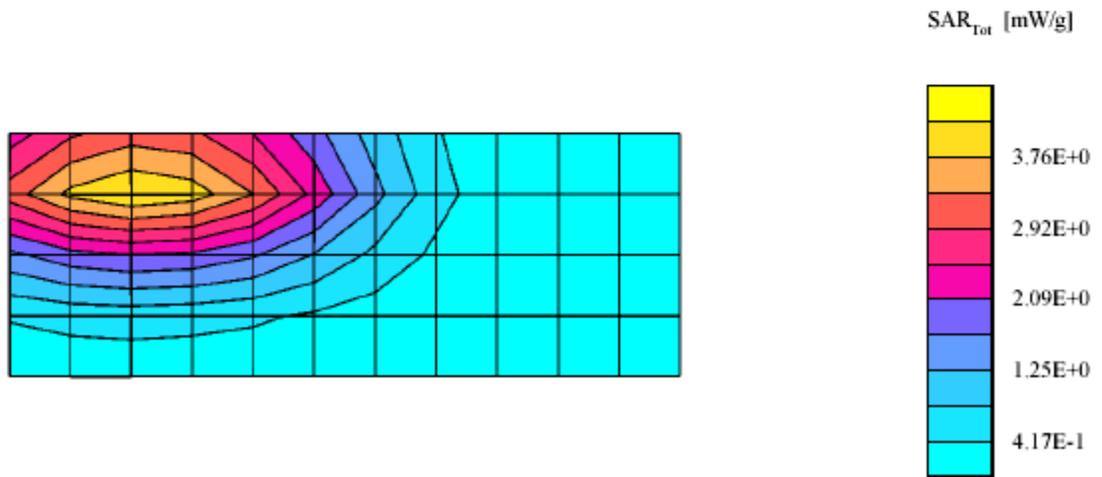
Dipole 835-002, 835 MHz, power delivered = 250 mW

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 57.0$ $\rho = 1.07$ g/cm³

Cube 5x5x7; Peak: 3.06 mW/g, SAR (1g): 2.04 mW/g, SAR (10g): 1.36 mW/g, (Worst-case extrapolation)

Penetration depth: 13.7 (12.2, 15.6) [mm]

Powerdrift: -0.01 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

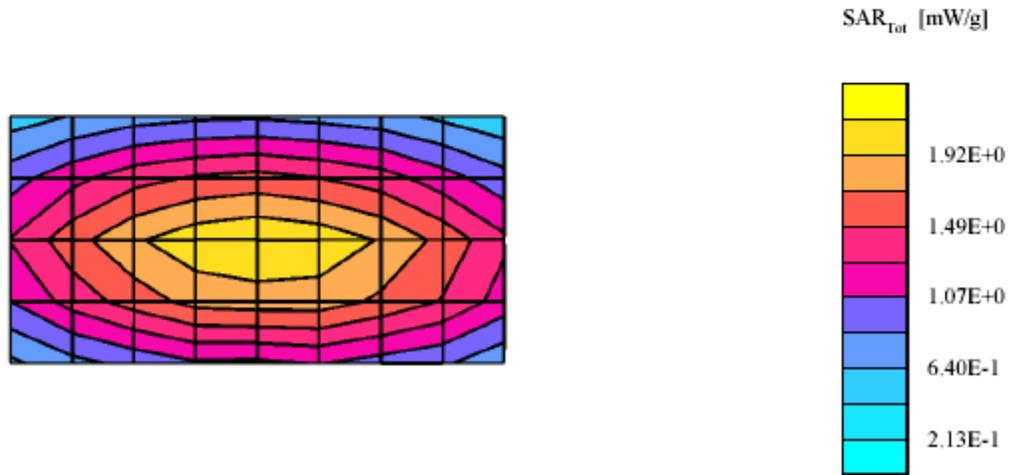
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.99$ mho/m $\epsilon_r = 55.9$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.15 mW/g, SAR (1g): 2.05 mW/g, SAR (10g): 1.38 mW/g, (Worst-case extrapolation)

Penetration depth: 13.8 (12.3, 15.6) [mm]

Powerdrift: 0.05 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

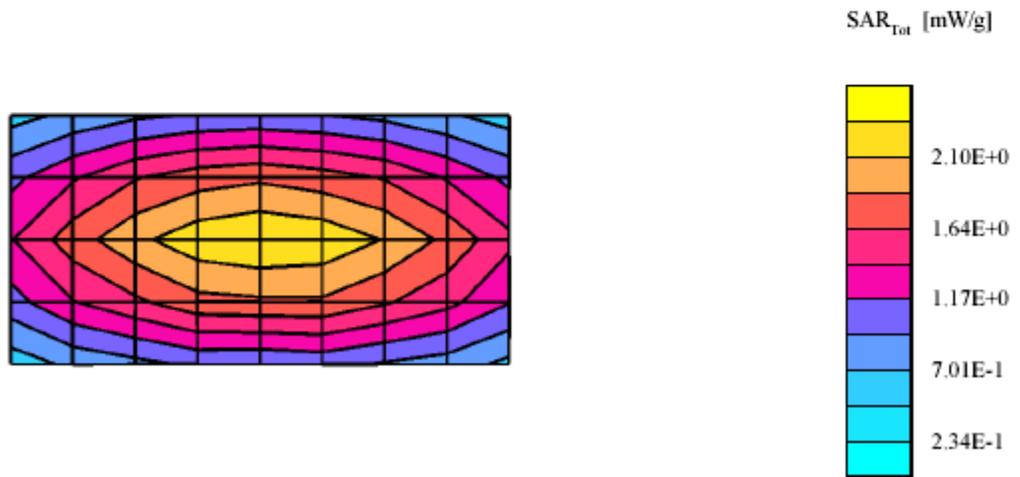
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.99$ mho/m $\epsilon_r = 55.4$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.47 mW/g, SAR (1g): 2.24 mW/g, SAR (10g): 1.49 mW/g, (Worst-case extrapolation)

Penetration depth: 13.7 (12.2, 15.4) [mm]

Powerdrift: 0.01 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

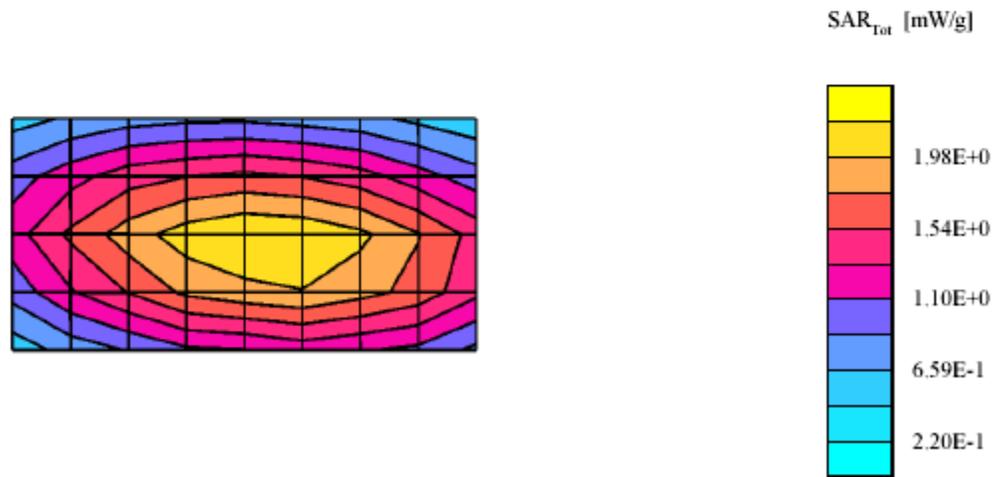
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 55.0$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.29 mW/g, SAR (1g): 2.13 mW/g, SAR (10g): 1.43 mW/g, (Worst-case extrapolation)

Penetration depth: 13.8 (12.4, 15.4) [mm]

Powerdrift: 0.05 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

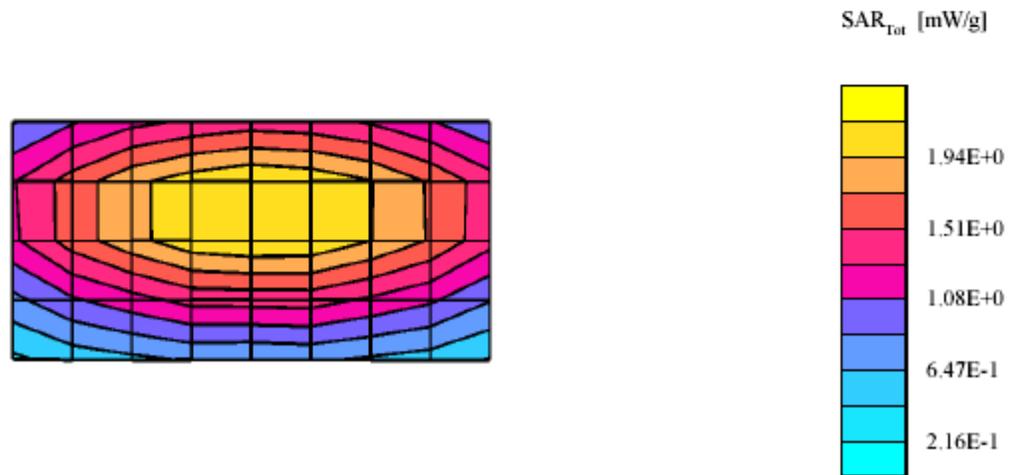
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 54.3$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.37 mW/g, SAR (1g): 2.19 mW/g, SAR (10g): 1.47 mW/g, (Worst-case extrapolation)

Penetration depth: 13.7 (12.4, 15.3) [mm]

Powerdrift: 0.05 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

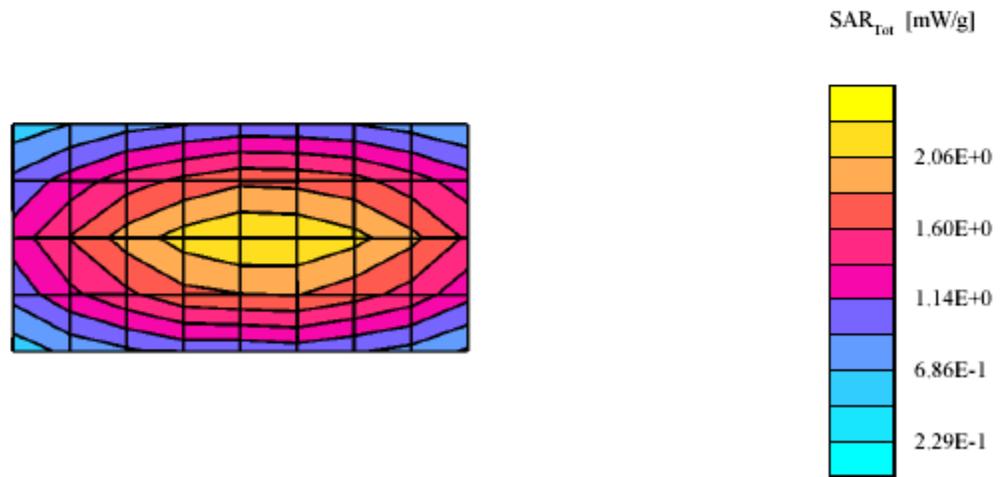
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 54.2$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.39 mW/g, SAR (1g): 2.19 mW/g, SAR (10g): 1.46 mW/g, (Worst-case extrapolation)

Penetration depth: 13.5 (12.3, 15.1) [mm]

Powerdrift: 0.02 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

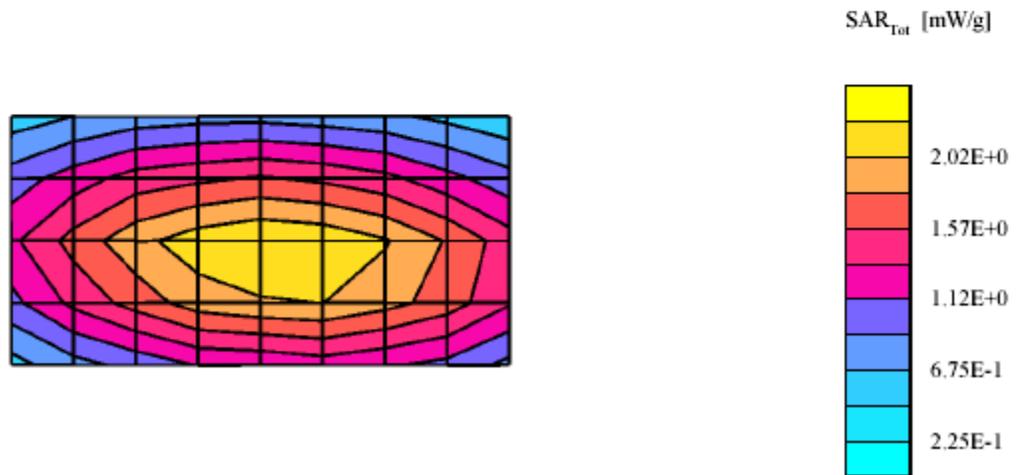
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.98$ mho/m $\epsilon_r = 53.8$ $\rho = 1.07$ g/cm³

Cube 5x5x7; Peak: 3.40 mW/g, SAR (1g): 2.19 mW/g, SAR (10g): 1.46 mW/g, (Worst-case extrapolation)

Penetration depth: 13.5 (12.1, 15.3) [mm]

Powerdrift: -0.03 dB



835 CGISS Dipole 002

Dipole 835-002, body 835 MHz, power delivered = 250 mW

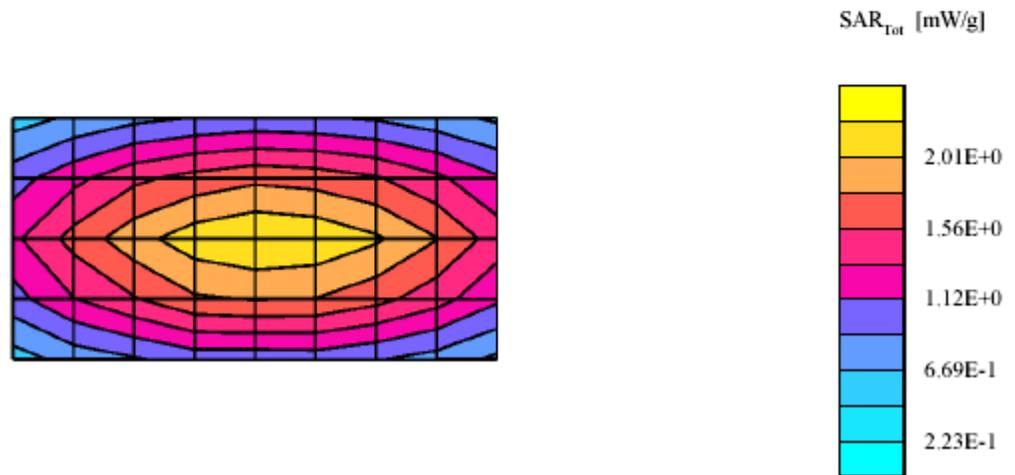
Target @ 250mW is 2.22mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.30,6.30,6.30); Crest factor: 1.0; FCC Muscle_835 MHz: $\sigma = 0.97$ mho/m $\epsilon_r = 53.5$ $\rho = 1.07$ g/cm³

Cube 5x5x7: Peak: 3.31 mW/g, SAR (1g): 2.12 mW/g, SAR (10g): 1.41 mW/g, (Worst-case extrapolation)

Penetration depth: 13.4 (11.8, 15.4) [mm]

Powerdrift: -0.08 dB



Dipole 835-002

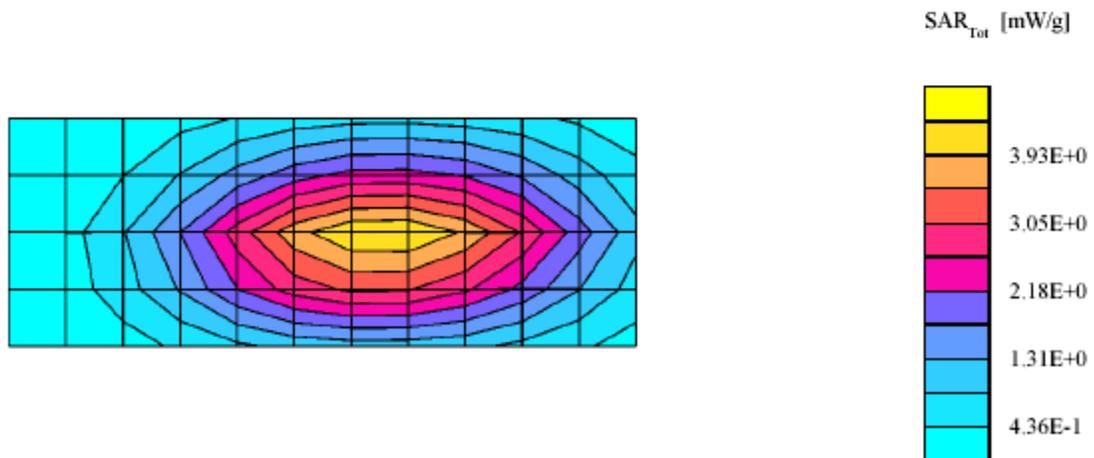
Dipole 835-002, 835 MHz, power delivered = 500 mW
Target is 8.0. @ 1W

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.53,6.53,6.53); Crest factor: 1.0; IEEE Head_835 MHz: $\sigma = 0.91$ mho/m $\epsilon_r = 42.5$ $\rho = 1.04$ g/cm³

Cube 5x5x7: Peak: 6.54 mW/g, SAR (1g): 4.28 mW/g, SAR (10g): 2.83 mW/g, (Worst-case extrapolation)

Penetration depth: 13.0 (11.6, 14.7) [mm]

Powerdrift: 0.02 dB



835 CGISS Dipole 002

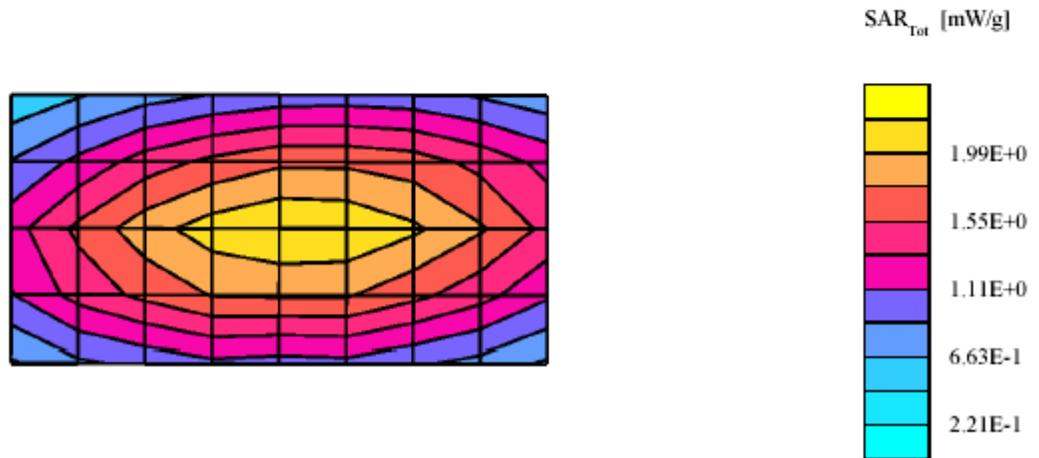
Dipole 835-002, 835 MHz, power delivered = 250 mW

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.53,6.53,6.53); Crest factor: 1.0; IEEE Head_835 MHz: $\sigma = 0.92$ mho/m $\epsilon_r = 42.3$ $\rho = 1.04$ g/cm³

Cube 5x5x7: Peak: 3.32 mW/g, SAR (1g): 2.11 mW/g, SAR (10g): 1.40 mW/g, (Worst-case extrapolation)

Penetration depth: 13.1 (11.9, 14.5) [mm]

Powerdrift: -0.07 dB



835 CGISS Dipole 002

Dipole 835-002, Head 835 MHz, power delivered = 250 mW

Target @ 250mW is 2.00mW/g,

Flat Phantom; Probe: ET3DV6 - SN1383; ConvF(6.53,6.53,6.53); Crest factor: 1.0; IEEE Head_835 MHz: $\sigma = 0.92$ mho/m $\epsilon_r = 41.9$ $\rho = 1.04$ g/cm³

Cube 5x5x7: Peak: 3.21 mW/g, SAR (1g): 2.05 mW/g, SAR (10g): 1.36 mW/g, (Worst-case extrapolation)

Penetration depth: 13.2 (11.9, 14.8) [mm]

Powerdrift: -0.05 dB

