



Test & Certification Center (TCC) - Dallas

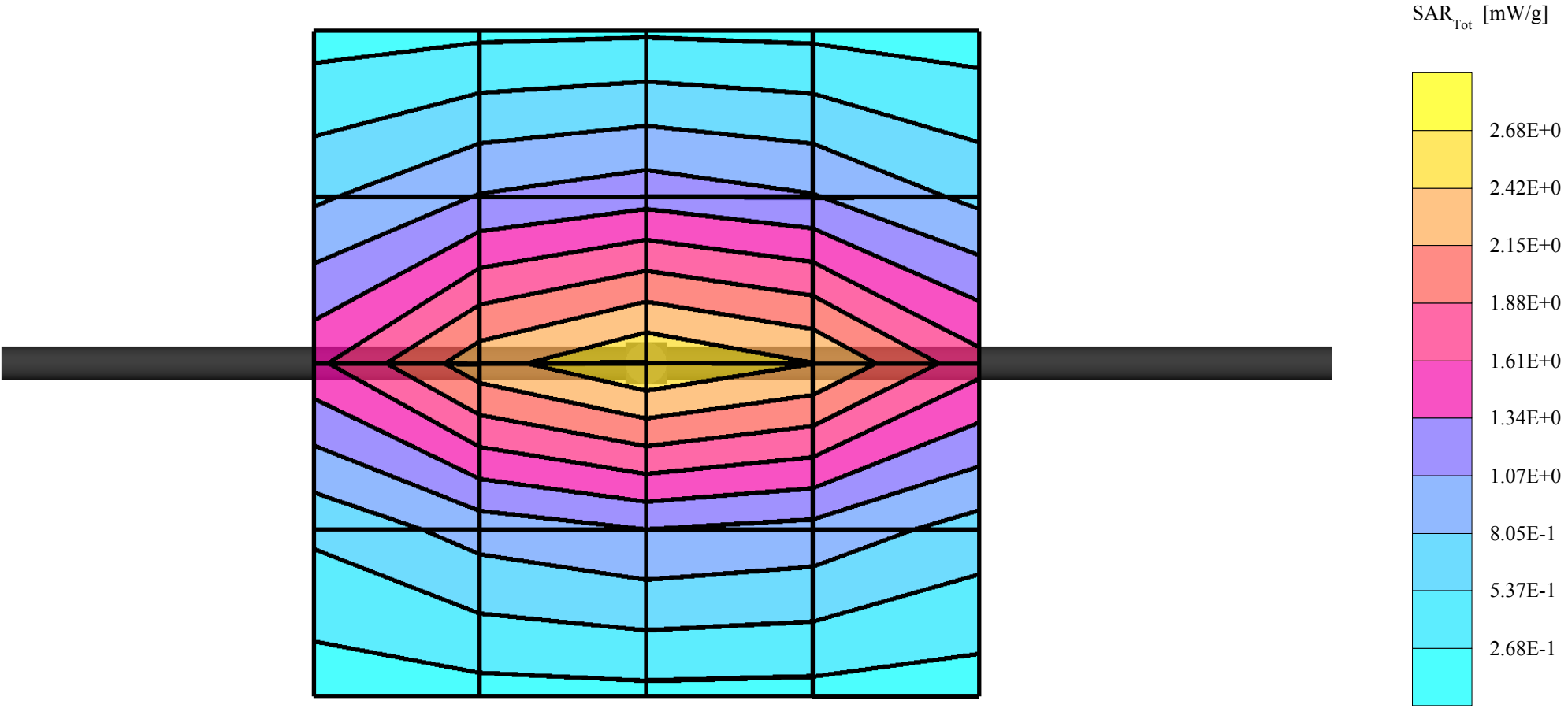


Accredited Laboratory
Certificate Number: 1819-01

APPENDIX A: VALIDATION SCANS

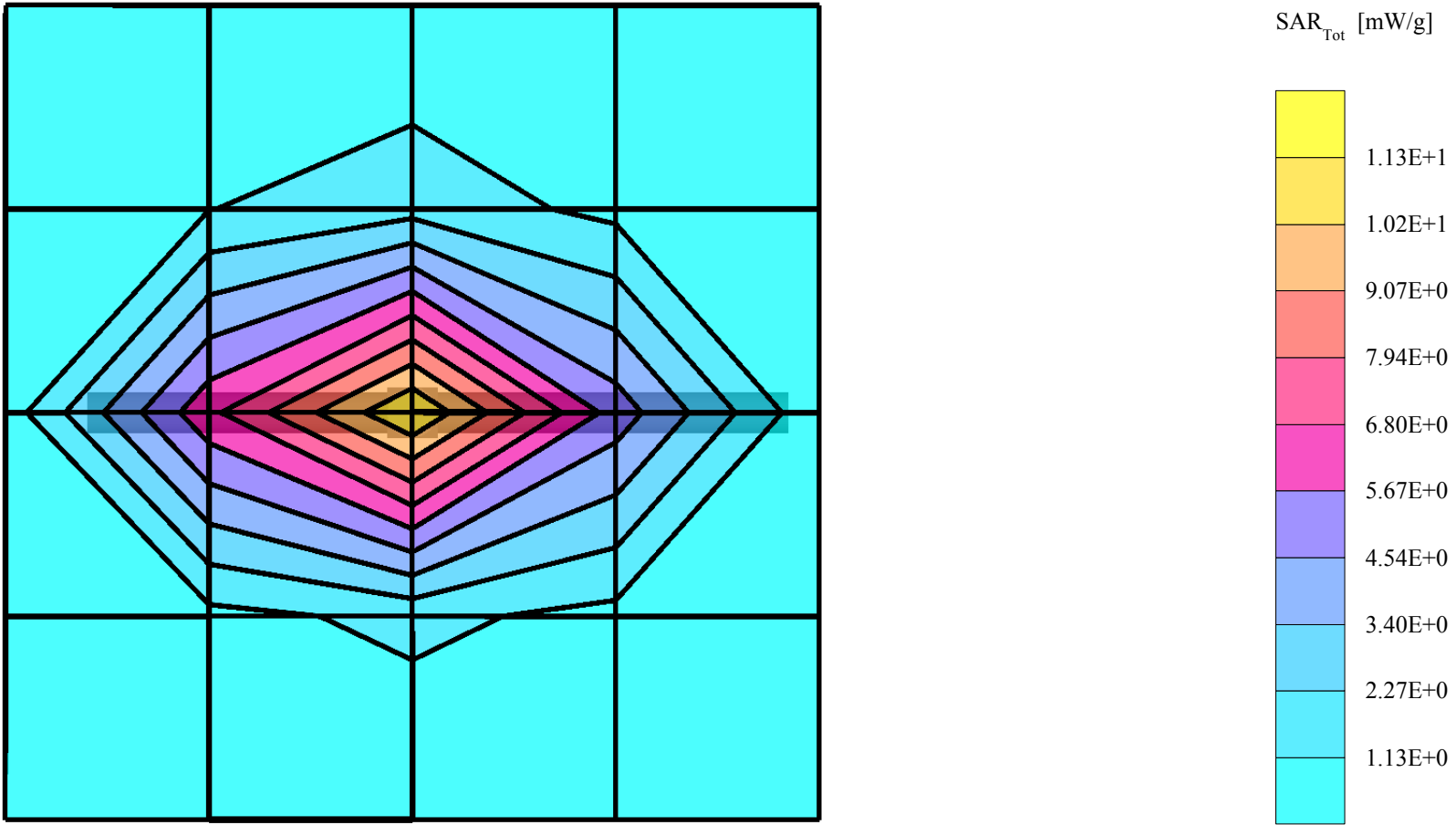
Dipole 835 MHz, Head Validation

SAM 1 (Cellular - Brain Tissue)
Frequency: 835 MHz; Crest factor: 1.0
Validation 835MHz - Brain Tissue: $\sigma = 0.89$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cubes (2): Peak: 3.51 mW/g ± 0.09 dB, SAR (1g): 2.37 mW/g ± 0.10 dB, SAR (10g): 1.56 mW/g ± 0.10 dB, (Advanced extrapolation)
Penetration depth: 13.1 (12.6, 13.7) [mm]
Powerdrift: 0.03 dB
Liquid Temperature (°C): 21.1



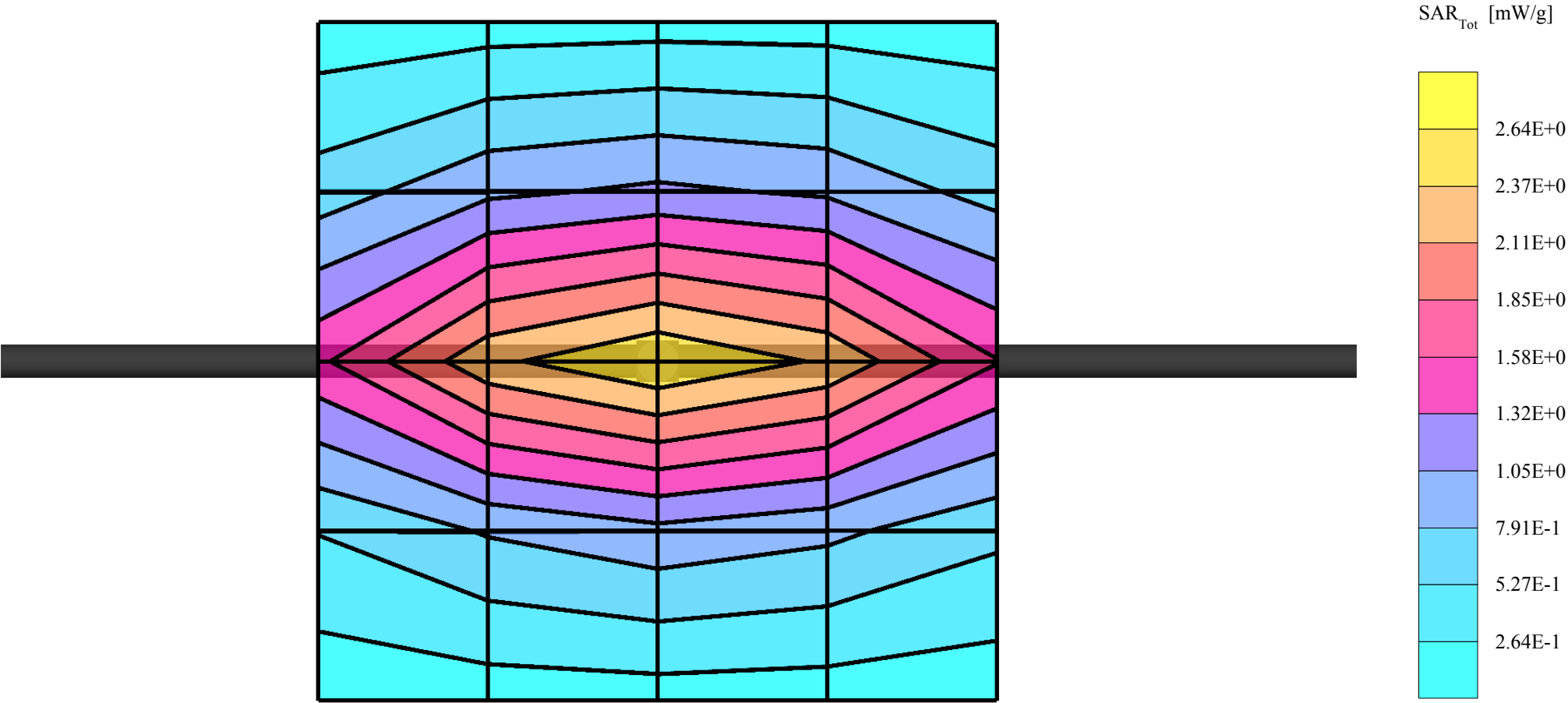
Dipole 1900 MHz, Head Validation

SAM 3 (PCS - Brain / Muscle Tissue)
Frequency: 1900 MHz; Crest factor: 1.0
Validation 1900MHz - Brain Tissue: $\sigma = 1.47$ mho/m $\epsilon_r = 41.0$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(5.00,5.00,5.00)
Cubes (2): Peak: 16.7 mW/g $\pm$ 0.08 dB, SAR (1g): 9.34 mW/g $\pm$ 0.08 dB, SAR (10g): 4.86 mW/g $\pm$ 0.08 dB, (Advanced extrapolation)
Penetration depth: 8.5 (8.4, 8.8) [mm]
Powerdrift: 0.03 dB
Liquid Temperature (°C): 19.5



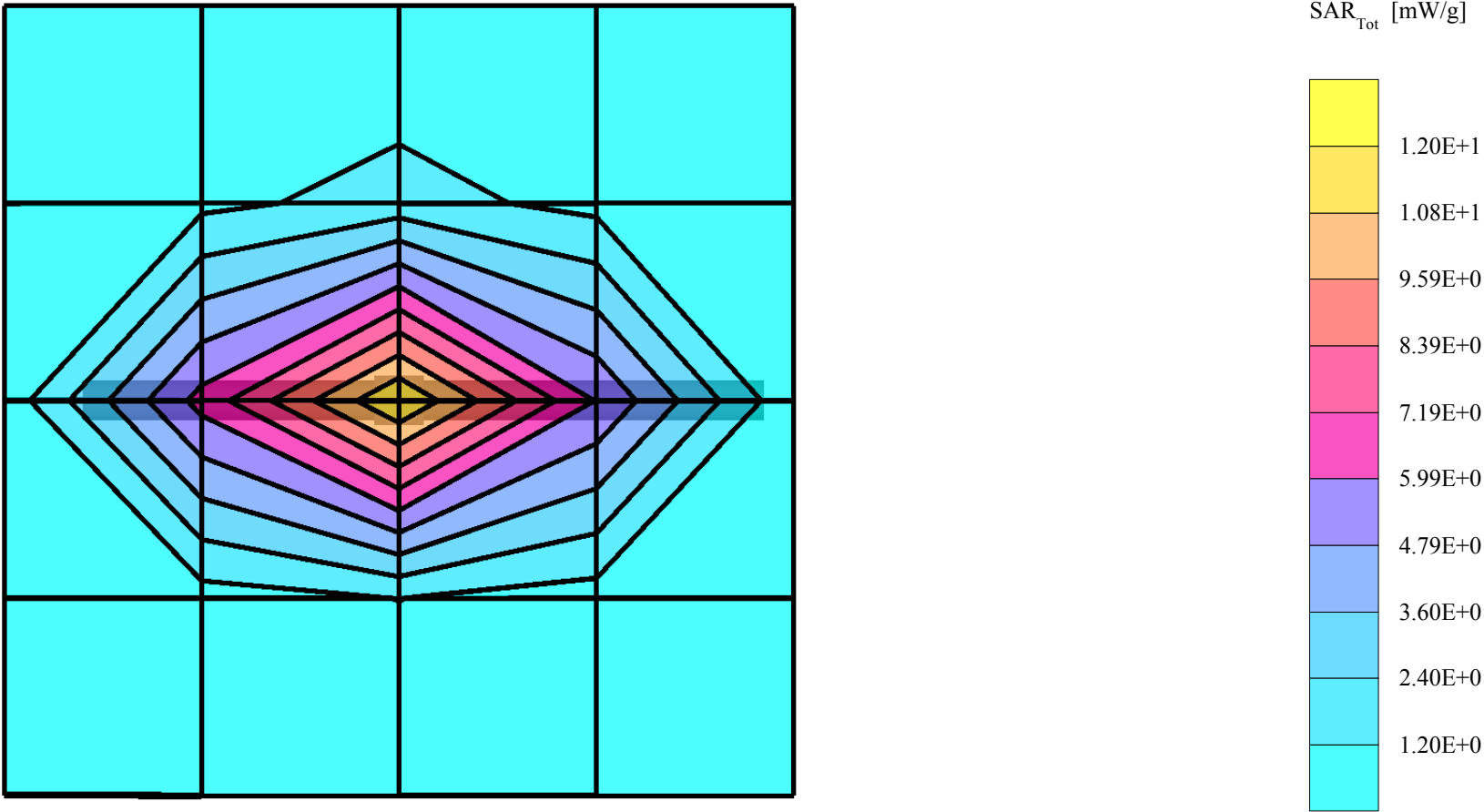
Dipole 835 MHz, Body Validation

SAM 2 (Cellular - Muscle Tissue)
Frequency: 835 MHz; Crest factor: 1.0
Validation 835MHz - Muscle Tissue: $\sigma = 0.94$ mho/m $\epsilon_r = 56.1$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cubes (2): Peak: 3.34 mW/g ± 0.07 dB, SAR (1g): 2.32 mW/g ± 0.07 dB, SAR (10g): 1.55 mW/g ± 0.08 dB, (Advanced extrapolation)
Penetration depth: 14.2 (13.8, 14.7) [mm]
Powerdrift: -0.04 dB
Liquid Temperature (°C): 20.2



Dipole 1900 MHz, Body Validation

SAM 3 (PCS - Brain / Muscle Tissue)
Frequency: 1900 MHz; Crest factor: 1.0
Validation 1900MHz - Muscle Tissue: $\sigma = 1.60 \text{ mho/m}$ $\epsilon_r = 51.2$ $\rho = 1.00 \text{ g/cm}^3$
Probe: ET3DV6 - SN1504; ConvF(4.50,4.50,4.50)
Cubes (2): Peak: $16.9 \text{ mW/g} \pm 0.10 \text{ dB}$, SAR (1g): $9.59 \text{ mW/g} \pm 0.08 \text{ dB}$, SAR (10g): $5.02 \text{ mW/g} \pm 0.08 \text{ dB}$, (Advanced extrapolation)
Penetration depth: 8.9 (8.8, 9.2) [mm]
Powerdrift: -0.00 dB
Liquid Temperature (°C): 19.1





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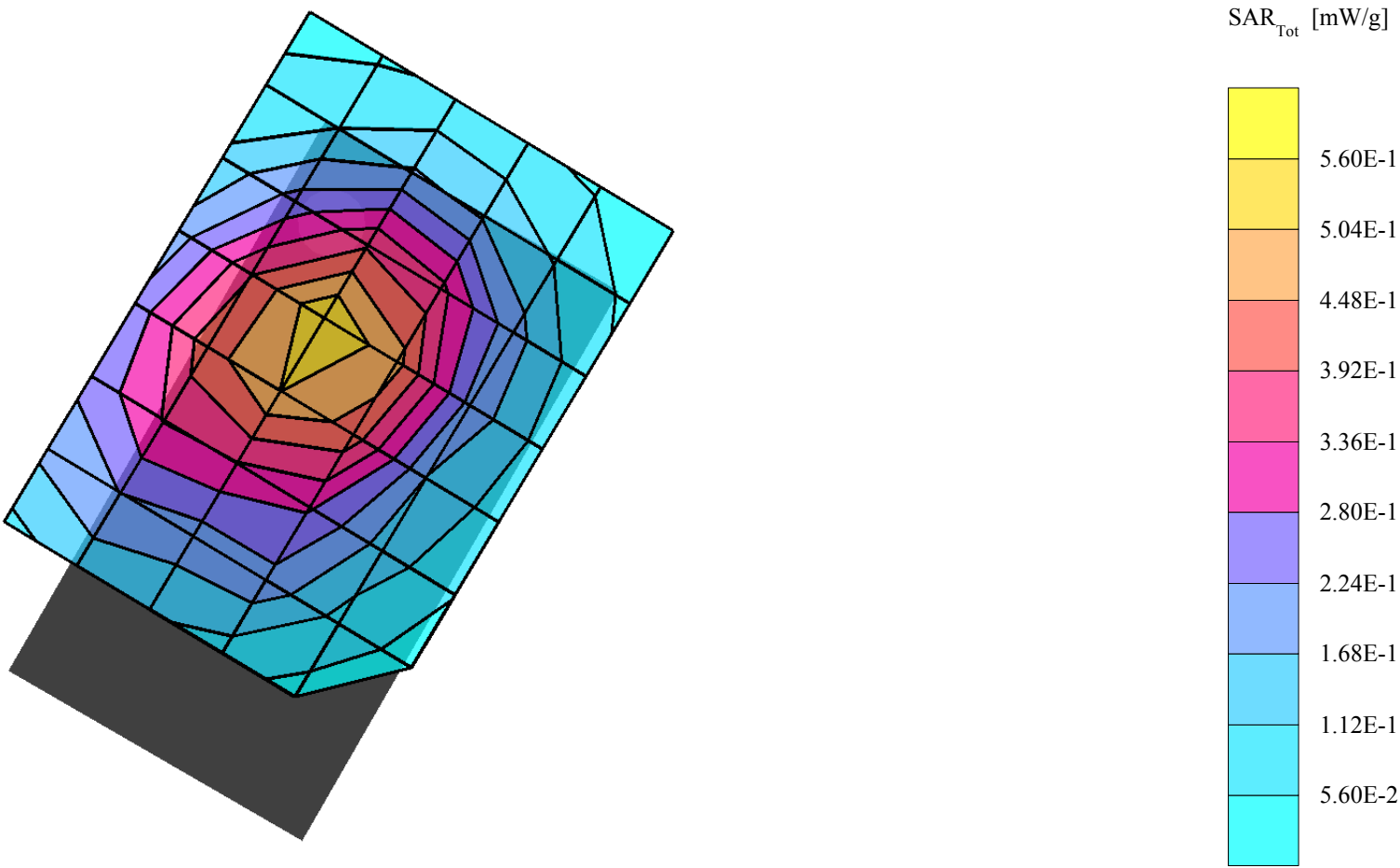


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APPENDIX B: MEASUREMENT SCANS

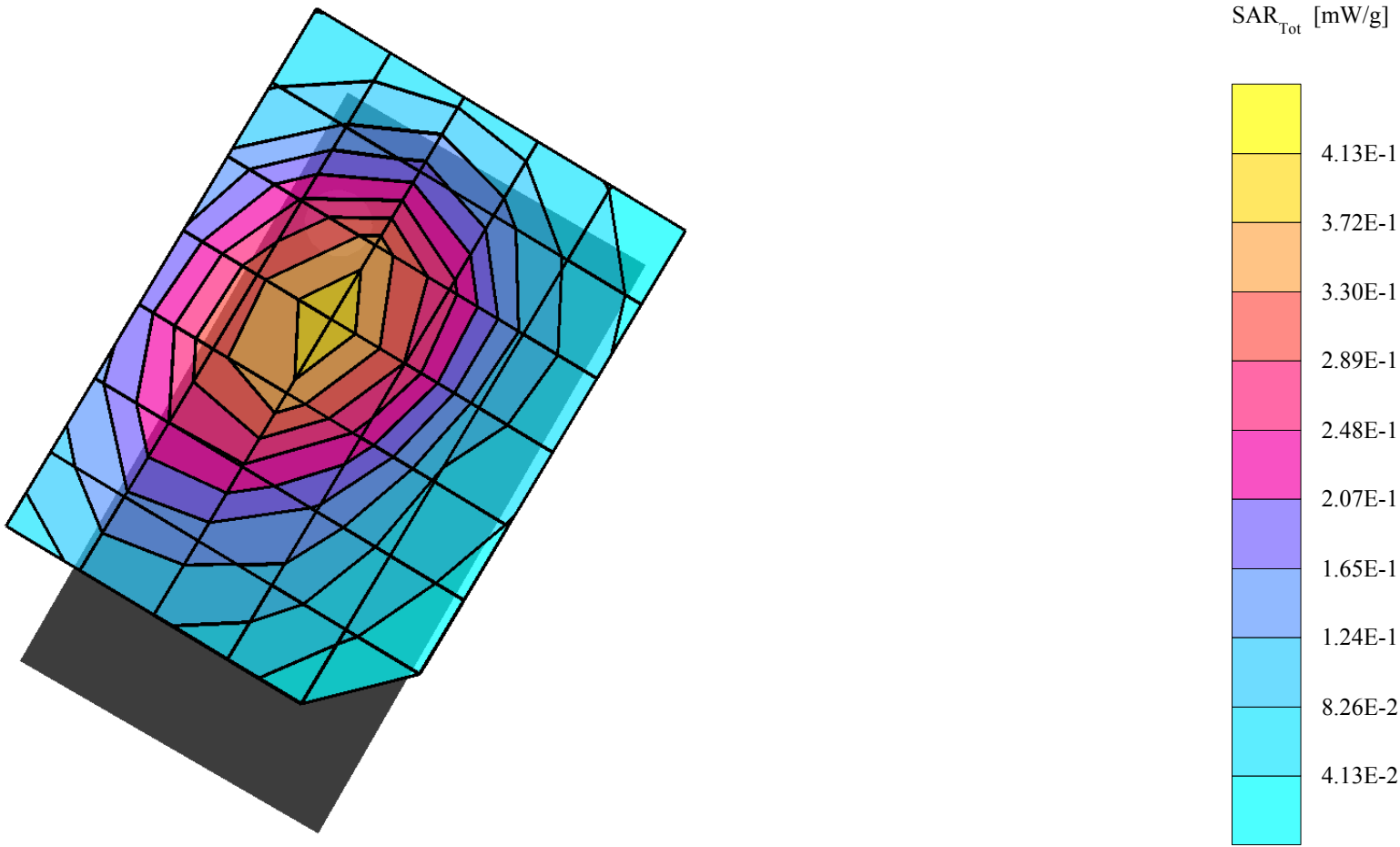
RH-47, GSM 850, Channel 128, Left Cheek Position with BL-6C Battery and Multimedia Card Installed

SAM 1 (Cellular - Brain Tissue) Phantom
Frequency: 824 MHz; Crest factor: 8.0
Cellular Band - Brain Tissue: $\sigma = 0.89$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.563 mW/g, SAR (10g): 0.376 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: 0.02 dB
Liquid Temperature (°C): 21.1



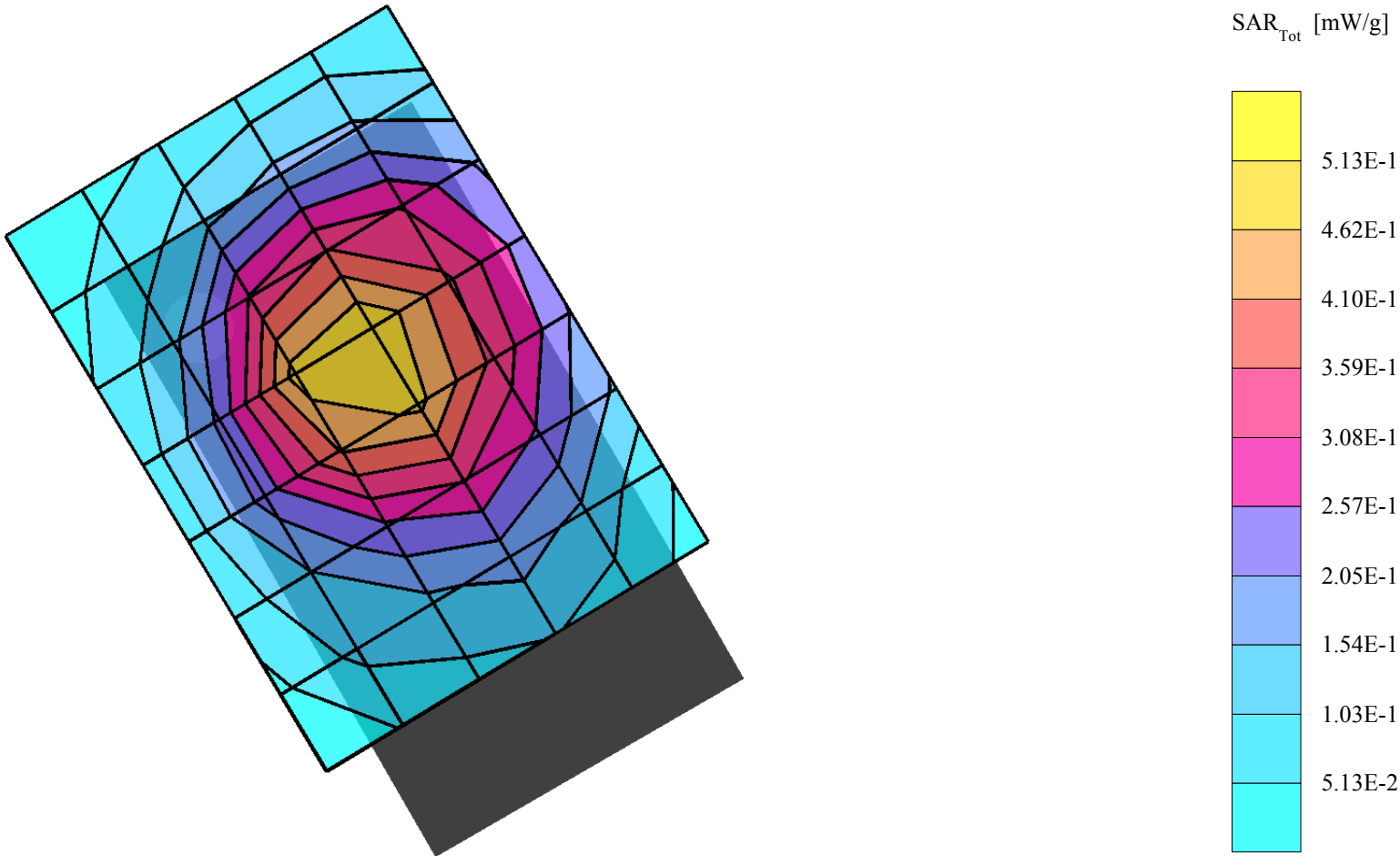
RH-47, GSM 850, Channel 190, Left Tilt Position with BL-6C Battery

SAM 1 (Cellular - Brain Tissue) Phantom
Frequency: 837 MHz; Crest factor: 8.0
Cellular Band - Brain Tissue: $\sigma = 0.89$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.392 mW/g, SAR (10g): 0.270 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.04 dB
Liquid Temperature (°C): 21.1



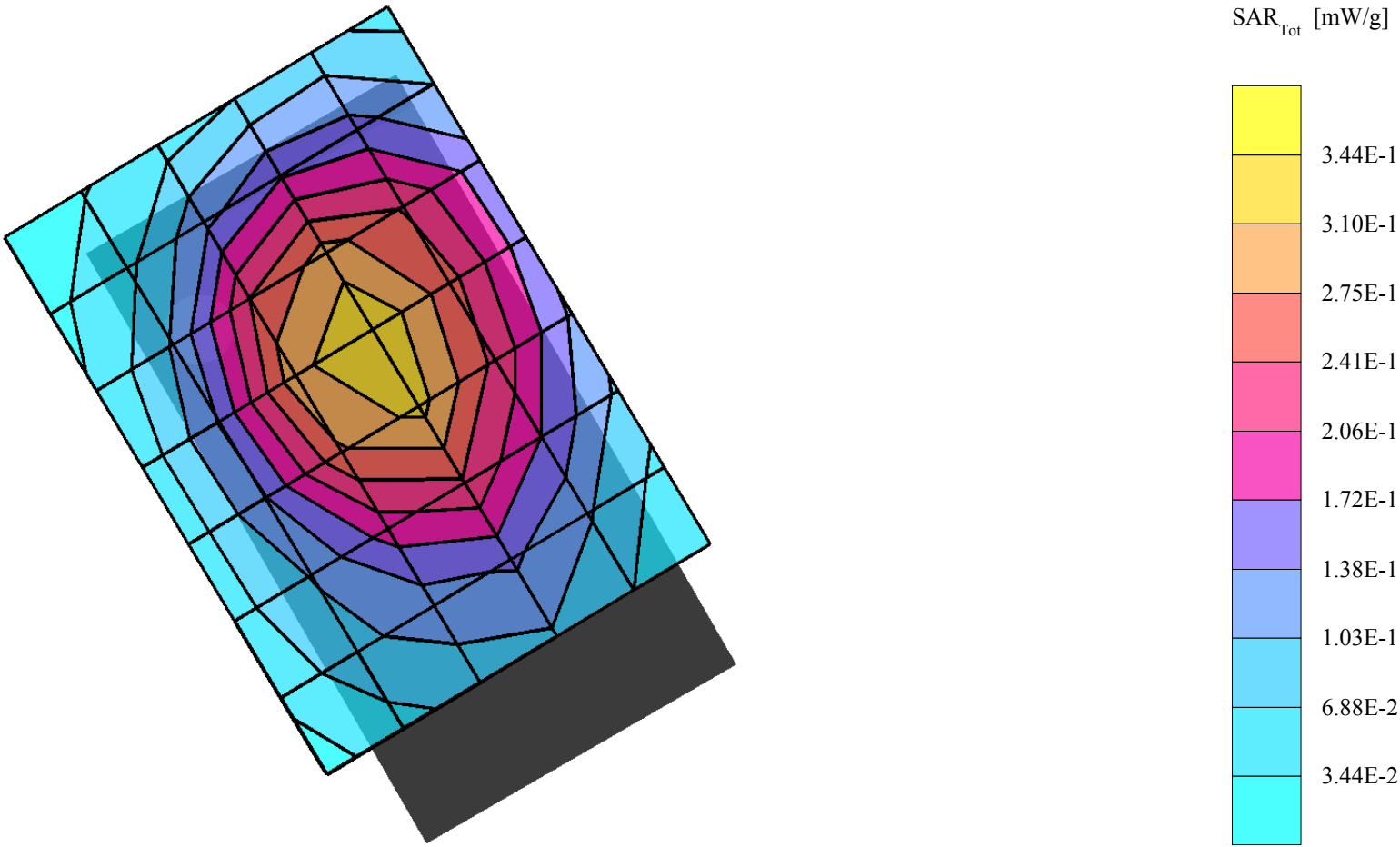
RH-47, GSM 850, Channel 190, Right Cheek Position with BL-6C Battery and Multimedia Card Installed

SAM 1 (Cellular - Brain Tissue) Phantom
Frequency: 837 MHz; Crest factor: 8.0
Cellular Band - Brain Tissue: $\sigma = 0.89$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.522 mW/g, SAR (10g): 0.357 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: 0.13 dB
Liquid Temperature (°C): 21.1



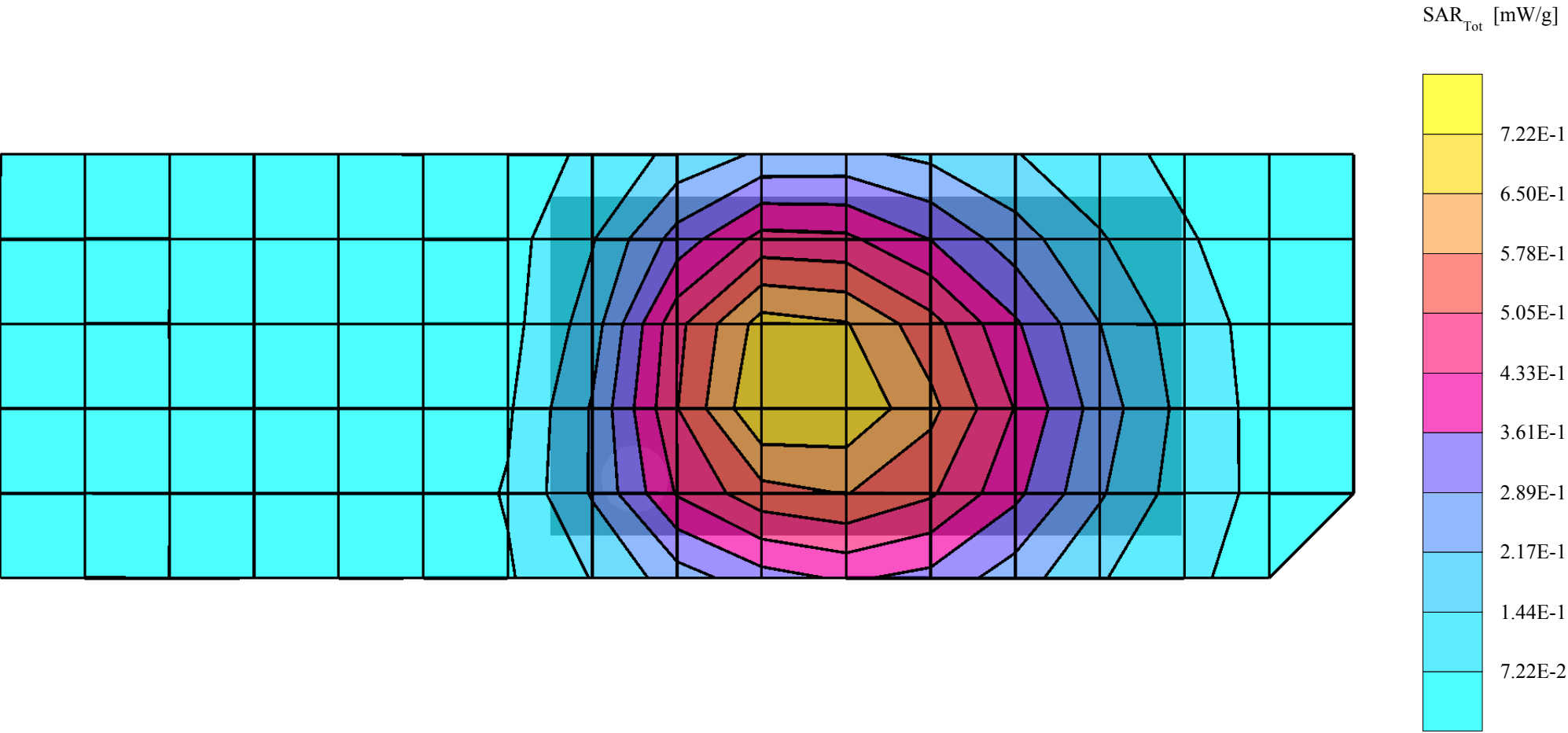
RH-47, GSM 850, Channel 190, Right Tilt Position with BL-6C Battery and Multimedia Card Installed

SAM 1 (Cellular - Brain Tissue) Phantom
Frequency: 837 MHz; Crest factor: 8.0
Cellular Band - Brain Tissue: $\sigma = 0.89$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.338 mW/g, SAR (10g): 0.238 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: 0.05 dB
Liquid Temperature (°C): 21.1



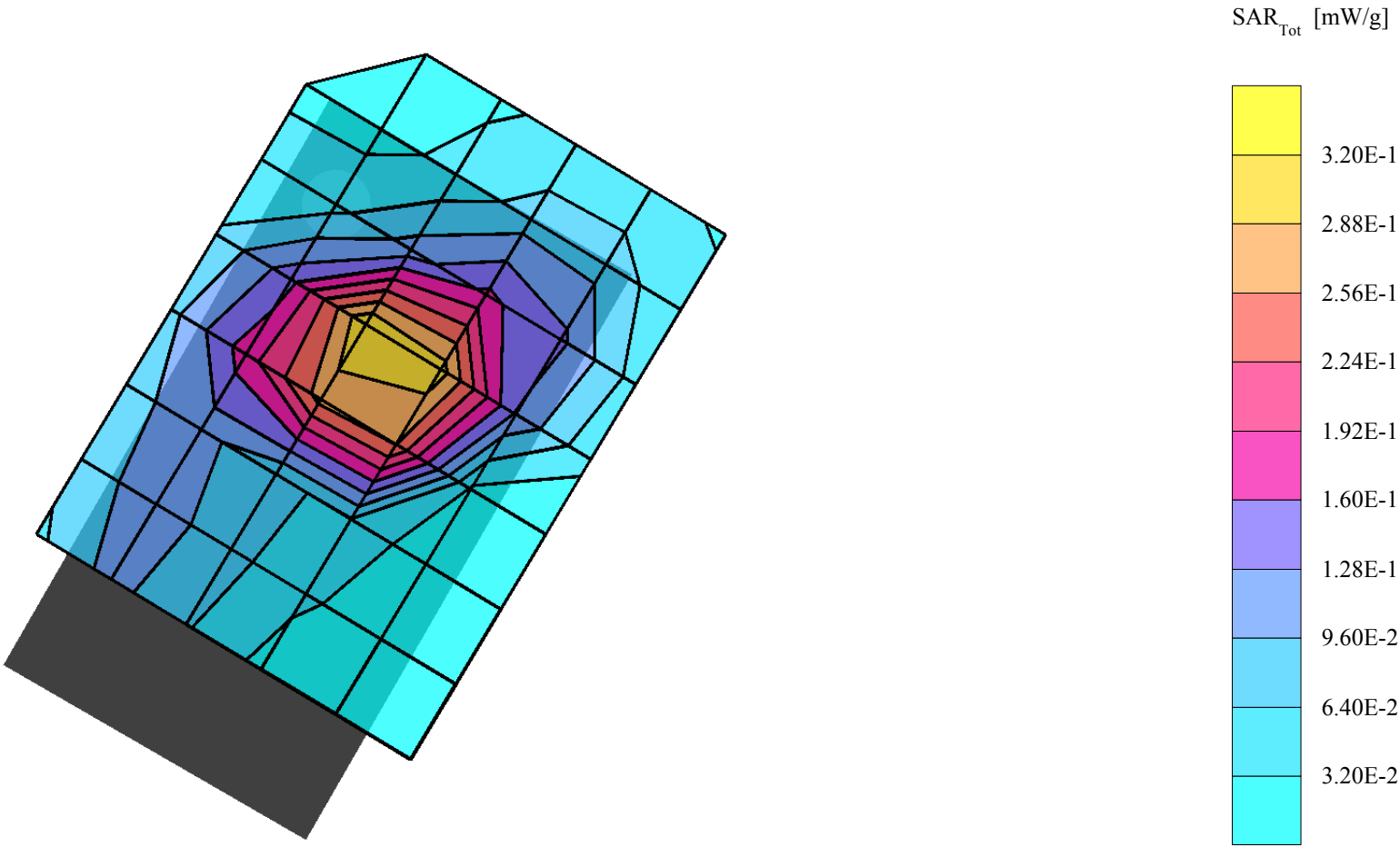
RH-47, GPRS 850, Channel 128, Flat Position with 22mm Spacer, BL-6C Battery, HS-7N Headset and Bluetooth Active

SAM 2 (Cellular - Muscle Tissue) Phantom
Frequency: 824 MHz; Crest factor: 4.0
Cellular Band - Muscle Tissue: $\sigma = 0.94 \text{ mho/m}$ $\epsilon_r = 56.1$ $\rho = 1.00 \text{ g/cm}^3$
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.713 mW/g, SAR (10g): 0.516 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0
Powerdrift: -0.10 dB
Liquid Temperature (°C): 20.2



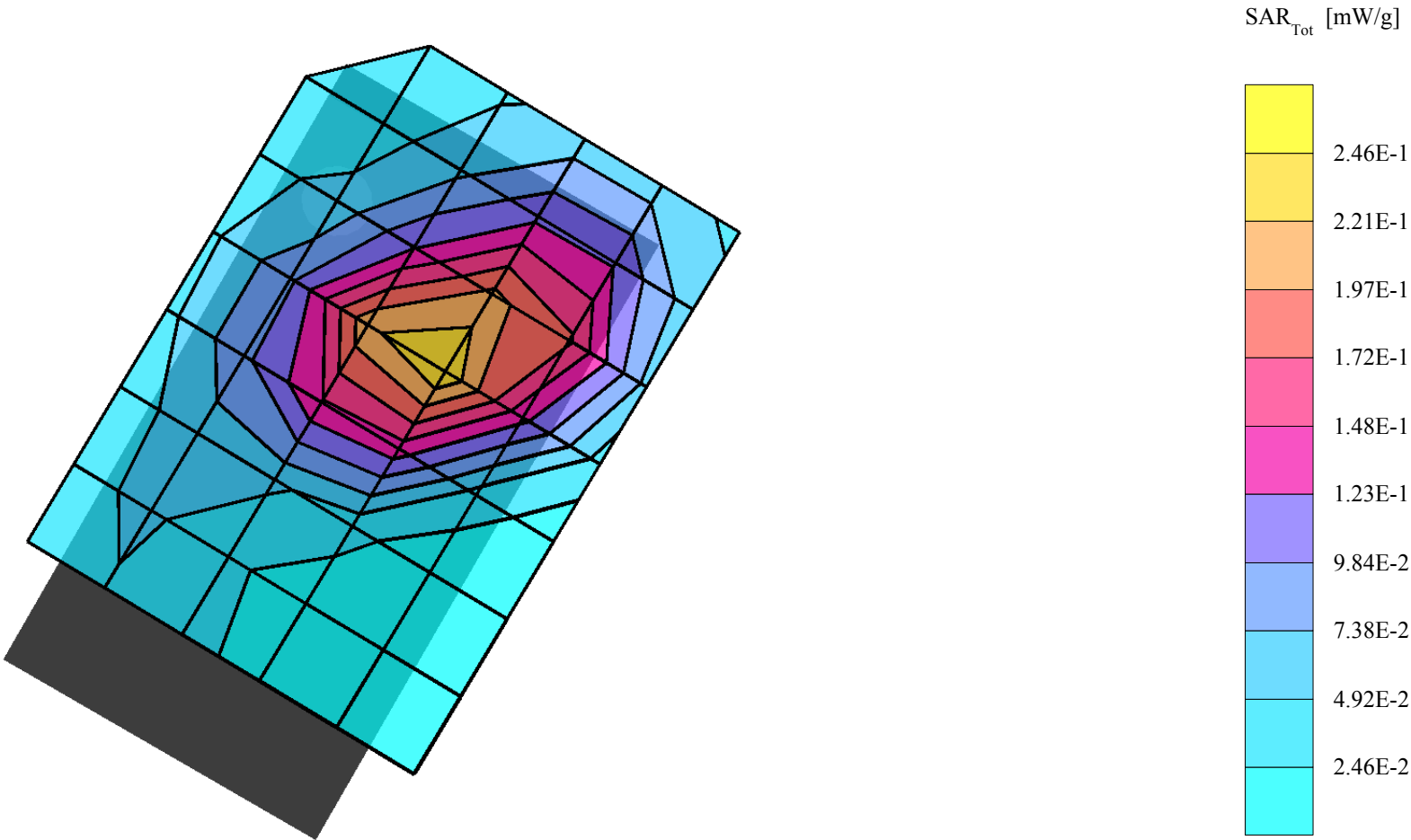
RH-47, GSM 1900, Channel 661, Left Cheek Position with BL-6C Battery and Multimedia Card Installed

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1880 MHz; Crest factor: 8.0
PCS Band - Brain Tissue: $\sigma = 1.46$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(5.00,5.00,5.00)
Cube 5x5x7: SAR (1g): 0.368 mW/g, SAR (10g): 0.204 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.06 dB
Liquid Temperature (°C): 19.5



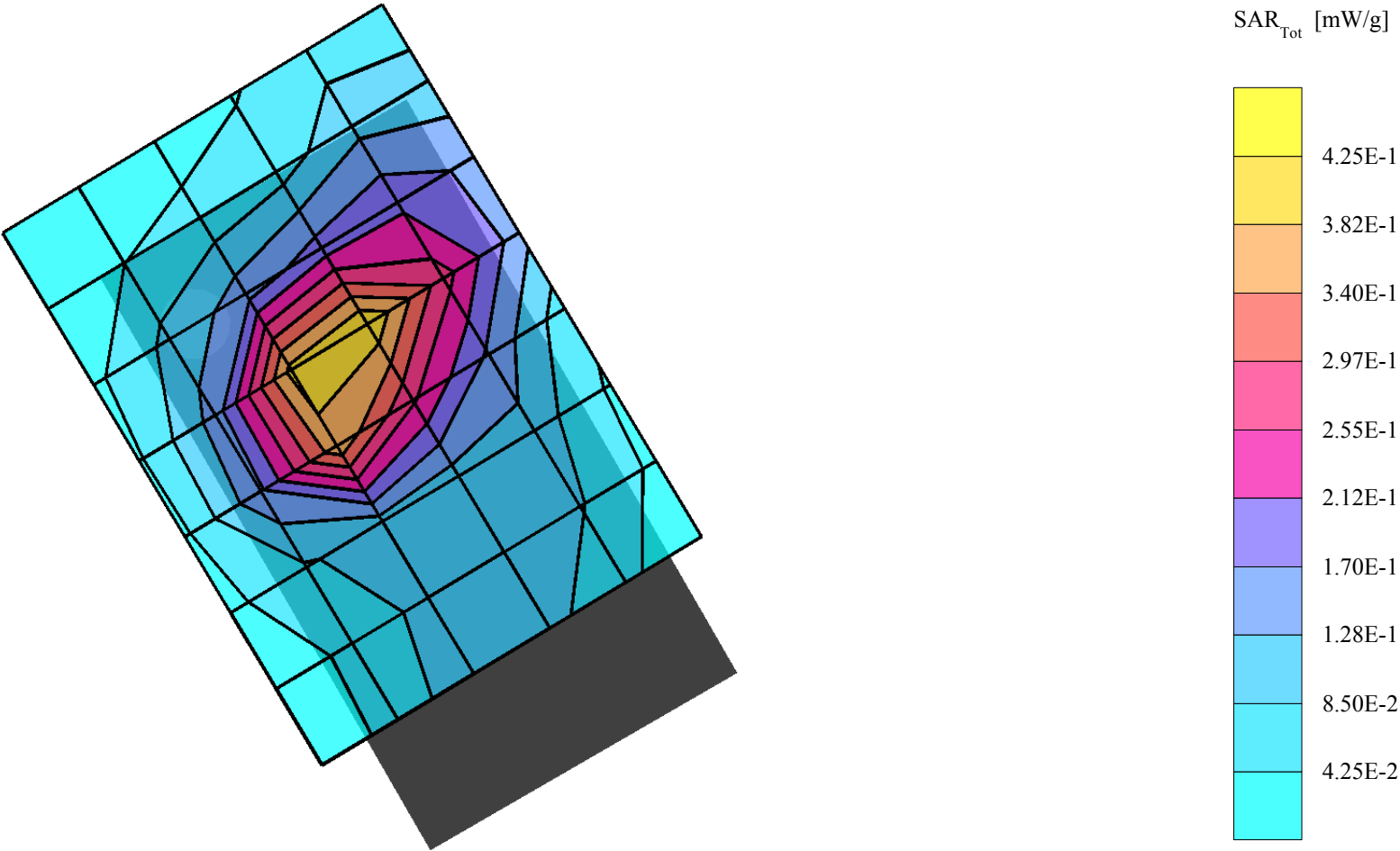
RH-47, GSM 1900, Channel 661, Left Tilt Position with BL-6C Battery and Multimedia Card Installed

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1880 MHz; Crest factor: 8.0
PCS Band - Brain Tissue: $\sigma = 1.46$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(5.00,5.00,5.00)
Cube 5x5x7: SAR (1g): 0.234 mW/g, SAR (10g): 0.138 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.05 dB
Liquid Temperature (°C): 19.5



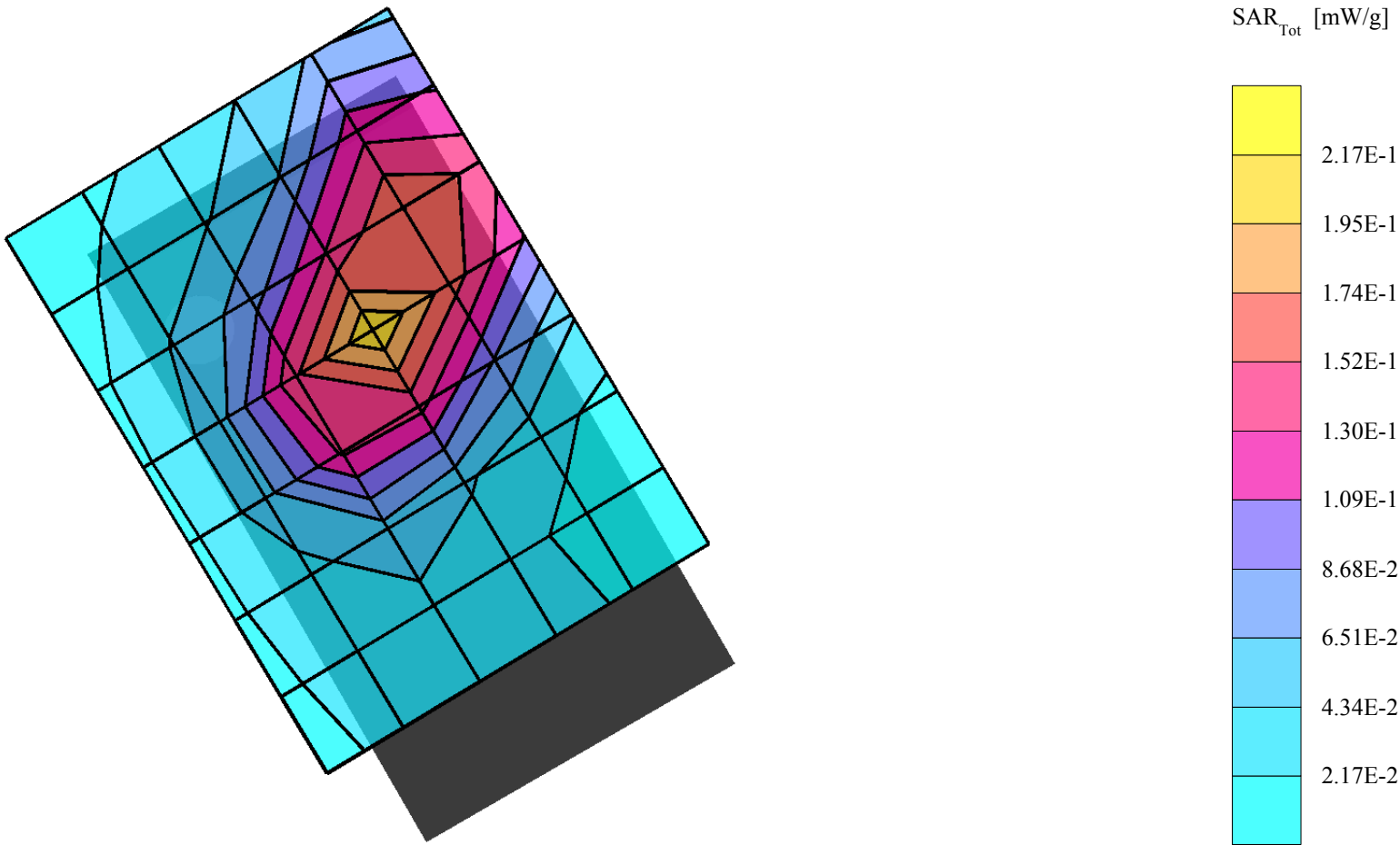
RH-47, GSM 1900, Channel 512, Right Cheek Position with BL-6C Battery and Multimedia Card Installed

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1850 MHz; Crest factor: 8.0
PCS Band - Brain Tissue: $\sigma = 1.46$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(5.00,5.00,5.00)
Cube 5x5x7: SAR (1g): 0.453 mW/g, SAR (10g): 0.253 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: 0.20 dB
Liquid Temperature (°C): 19.5



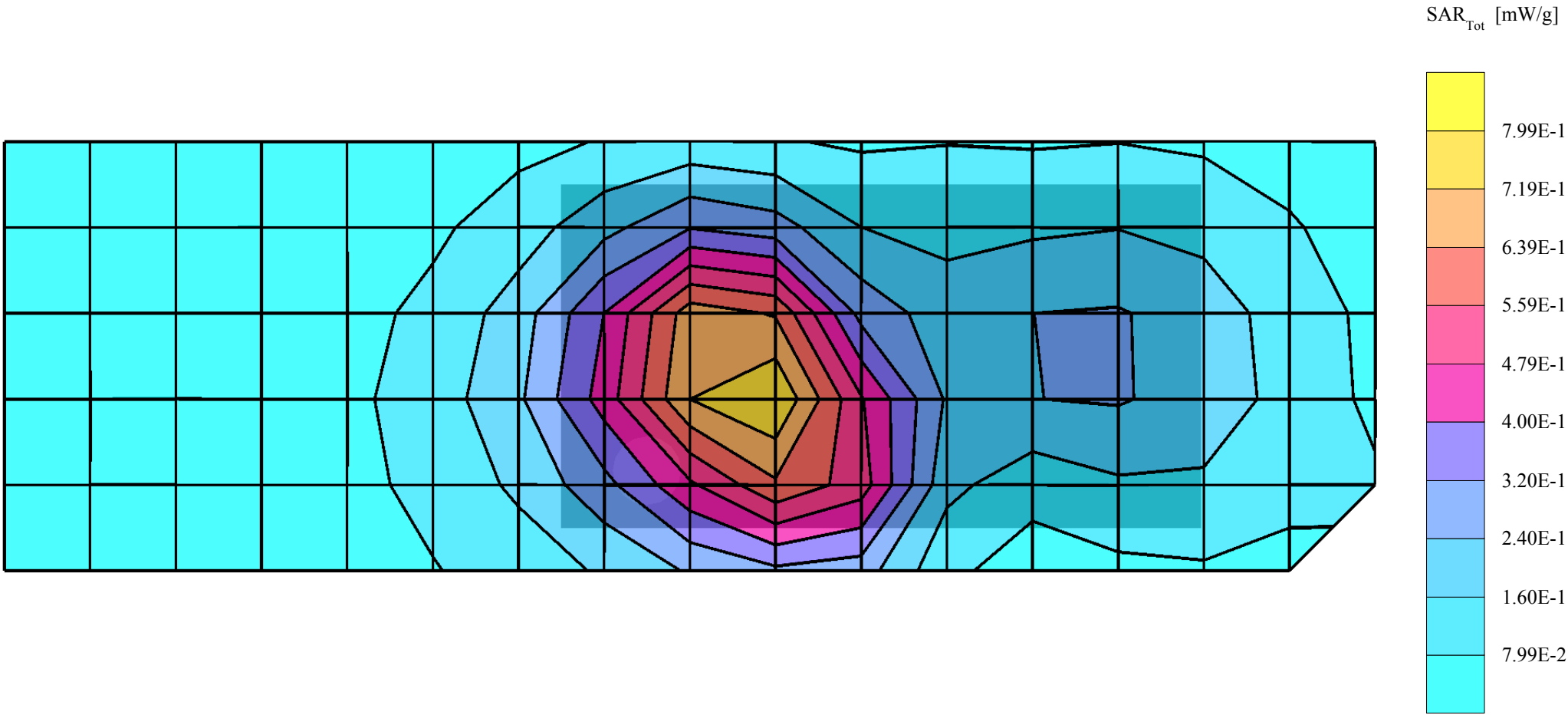
RH-47, GSM 1900, Channel 661, Right Tilt Position with BL-6C Battery and Multimedia Card Installed

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1880 MHz; Crest factor: 8.0
PCS Band - Brain Tissue: $\sigma = 1.46$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(5.00,5.00,5.00)
Cube 5x5x7: SAR (1g): 0.202 mW/g, SAR (10g): 0.118 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Powerdrift: -0.07 dB
Liquid Temperature (°C): 19.5



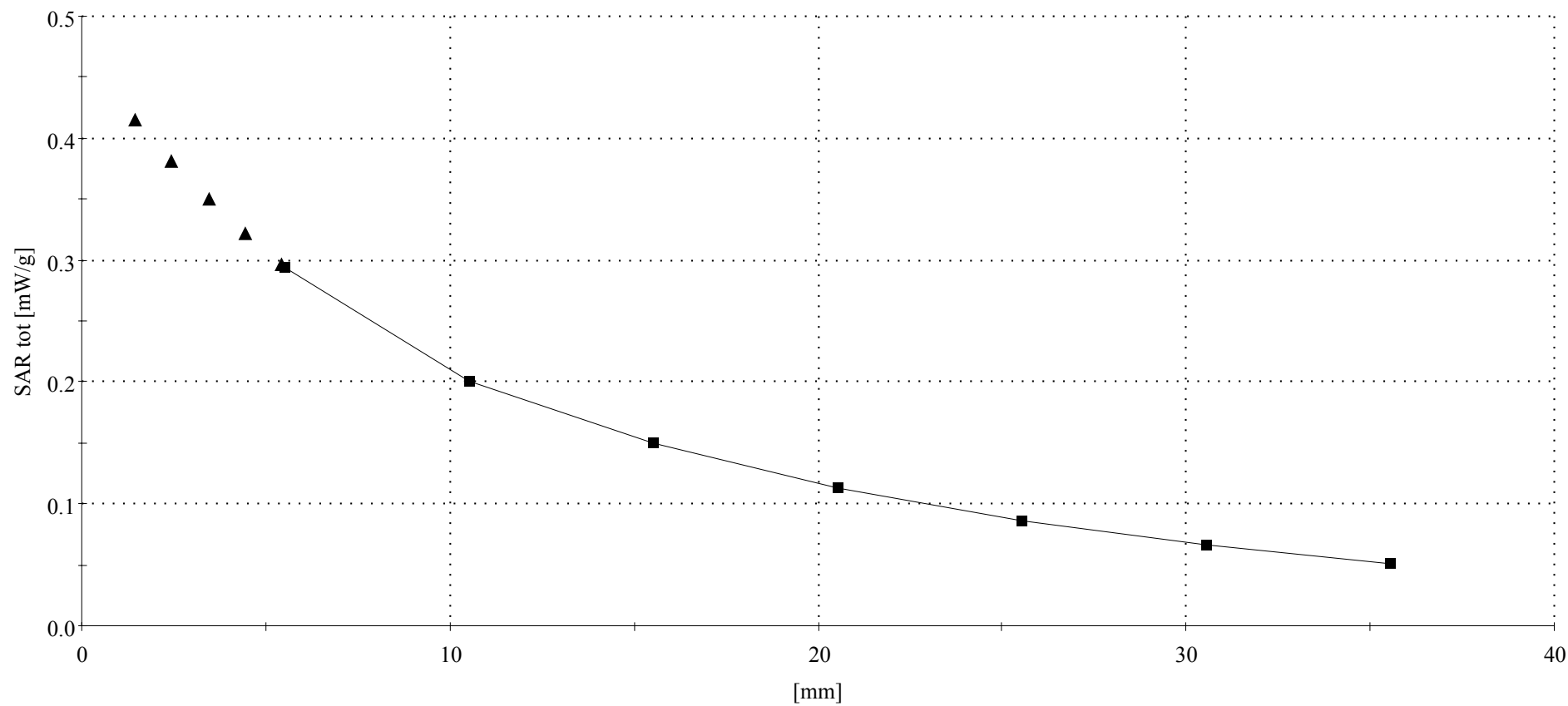
RH-47, GPRS 1900, Channel 512, Flat Position with 22mm Spacer, BL-6C Battery, HS-7N Headset and Bluetooth Active

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1850 MHz; Crest factor: 4.0
PCS Band - Muscle Tissue: $\sigma = 1.58 \text{ mho/m}$ $\epsilon_r = 51.3$ $\rho = 1.00 \text{ g/cm}^3$
Probe: ET3DV6 - SN1504; ConvF(4.50,4.50,4.50)
Cube 5x5x7: SAR (1g): 0.783 mW/g, SAR (10g): 0.467 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0
Powerdrift: -0.34 dB
Liquid Temperature (°C): 19.1



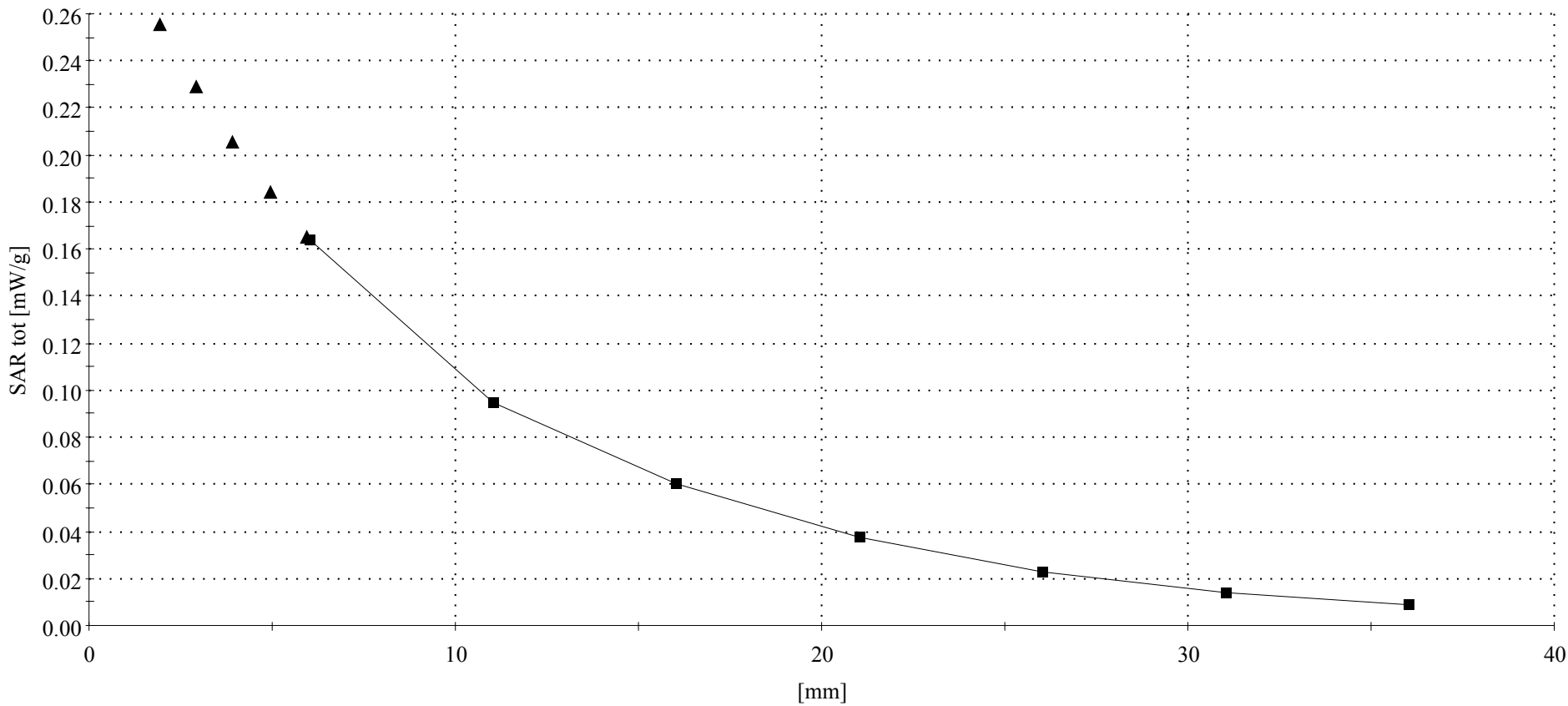
RH-47, GSM 850, Channel 128, Left Cheek Position with BL-6C Battery and Multimedia Card Installed

SAM 1 (Cellular - Brain Tissue) Phantom
Frequency: 824 MHz; Crest factor: 8.0
Cellular Band - Brain Tissue: $\sigma = 0.89$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.563 mW/g, SAR (10g): 0.376 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0
Liquid Temperature (°C): 21.1



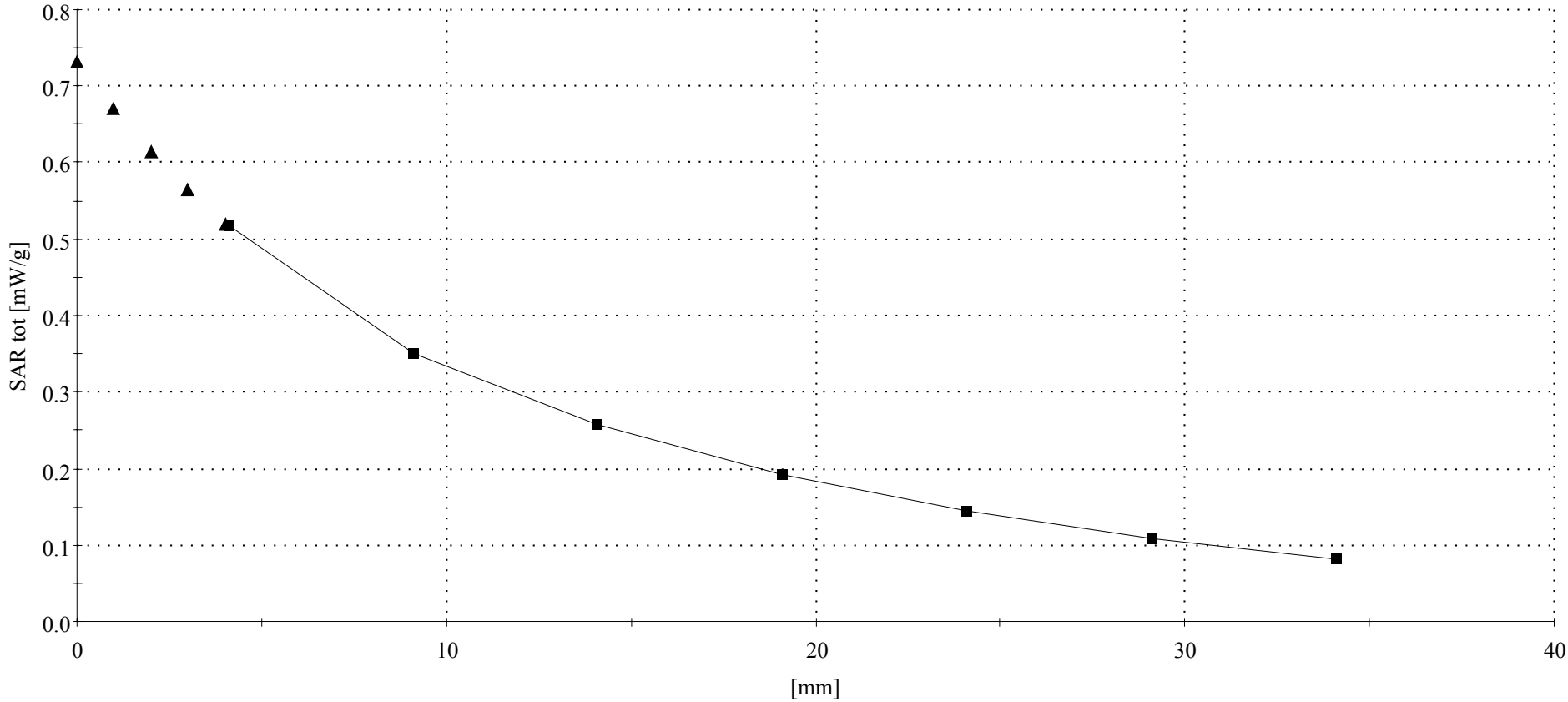
RH-47, GSM 1900, Channel 512, Right Cheek Position with BL-6C Battery and Multimedia Card installed

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1850 MHz; Crest factor: 8.0
PCS Band - Brain Tissue: $\sigma = 1.46 \text{ mho/m}$ $\epsilon_r = 41.1$ $\rho = 1.00 \text{ g/cm}^3$
Probe: ET3DV6 - SN1504; ConvF(5.00,5.00,5.00)
Cube 5x5x7: SAR (1g): 0.453 mW/g, SAR (10g): 0.253 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0
Liquid Temperature (°C): 19.5



RH-47, GPRS 850, Channel 128, Flat Position with 22mm Spacer, BL-6C Battery, HS-7N Headset and Bluetooth Active

SAM 2 (Cellular - Muscle Tissue) Phantom
Frequency: 824 MHz; Crest factor: 4.0
Cellular Band - Muscle Tissue: $\sigma = 0.94 \text{ mho/m}$ $\epsilon_r = 56.1$ $\rho = 1.00 \text{ g/cm}^3$
Probe: ET3DV6 - SN1504; ConvF(6.20,6.20,6.20)
Cube 5x5x7: SAR (1g): 0.713 mW/g, SAR (10g): 0.516 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0
Liquid Temperature (°C): 20.2



RH-47, GPRS 1900, Channel 512, Flat Position with 22mm Spacer, BL-6C Battery, HS-7N Headset and Bluetooth Active

SAM 3 (PCS - Brain / Muscle Tissue) Phantom
Frequency: 1850 MHz; Crest factor: 4.0
PCS Band - Muscle Tissue: $\sigma = 1.58 \text{ mho/m}$ $\epsilon_r = 51.3$ $\rho = 1.00 \text{ g/cm}^3$
Probe: ET3DV6 - SN1504; ConvF(4.50,4.50,4.50)
Cube 5x5x7: SAR (1g): 0.783 mW/g, SAR (10g): 0.467 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0
Liquid Temperature (°C): 19.1

