APPENDIX C: DIPOLE VALIDATION

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

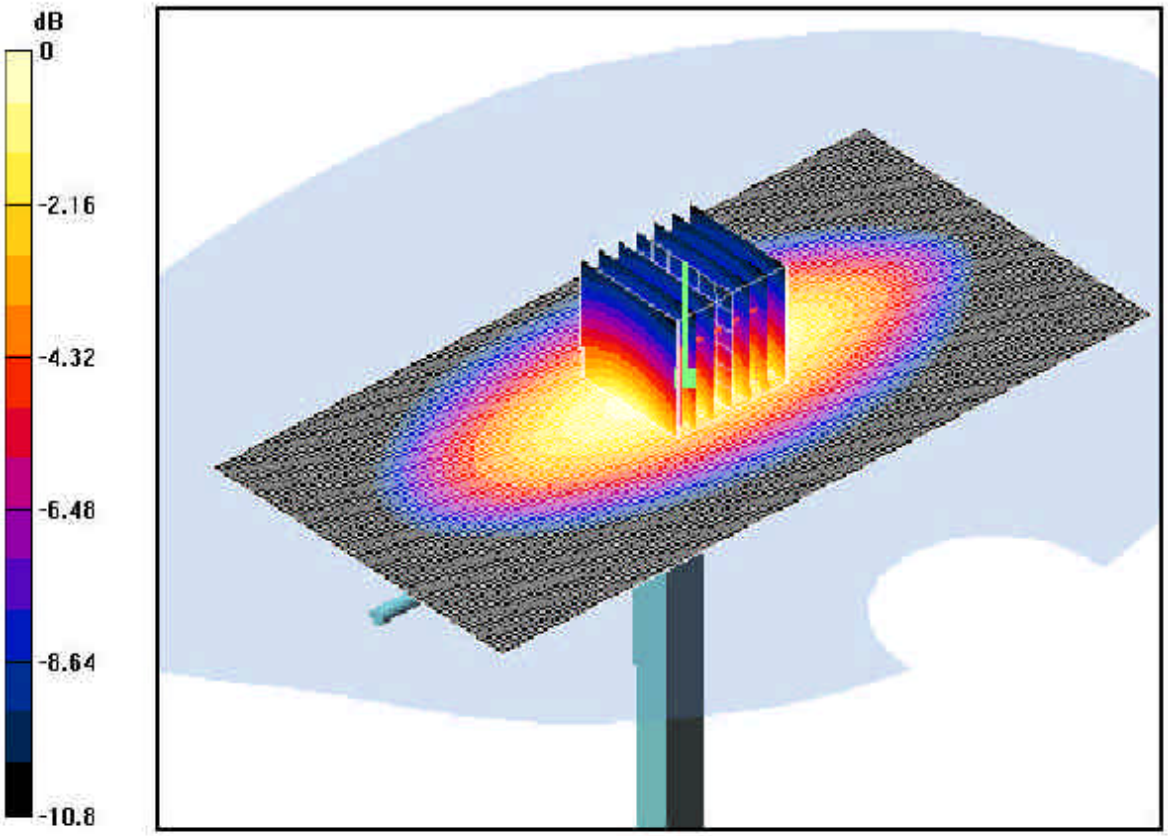
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 Brain (σ = 0.92 mho/m, ε_r = 42.28, ρ = 1000 kg/m^3)
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 03-22-2004; Ambient Temp: 21.8°C; Tissue Temp: 20.4°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE3 Sn455; Calibrated: 1/6/2004
Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Input Power = 24.0 dBm (250 mW)
SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.56 mW/g
Target SAR(1g) = 2.375 mW/g; Deviation = +1.05 %



0 dB = 2.84 mW/g

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

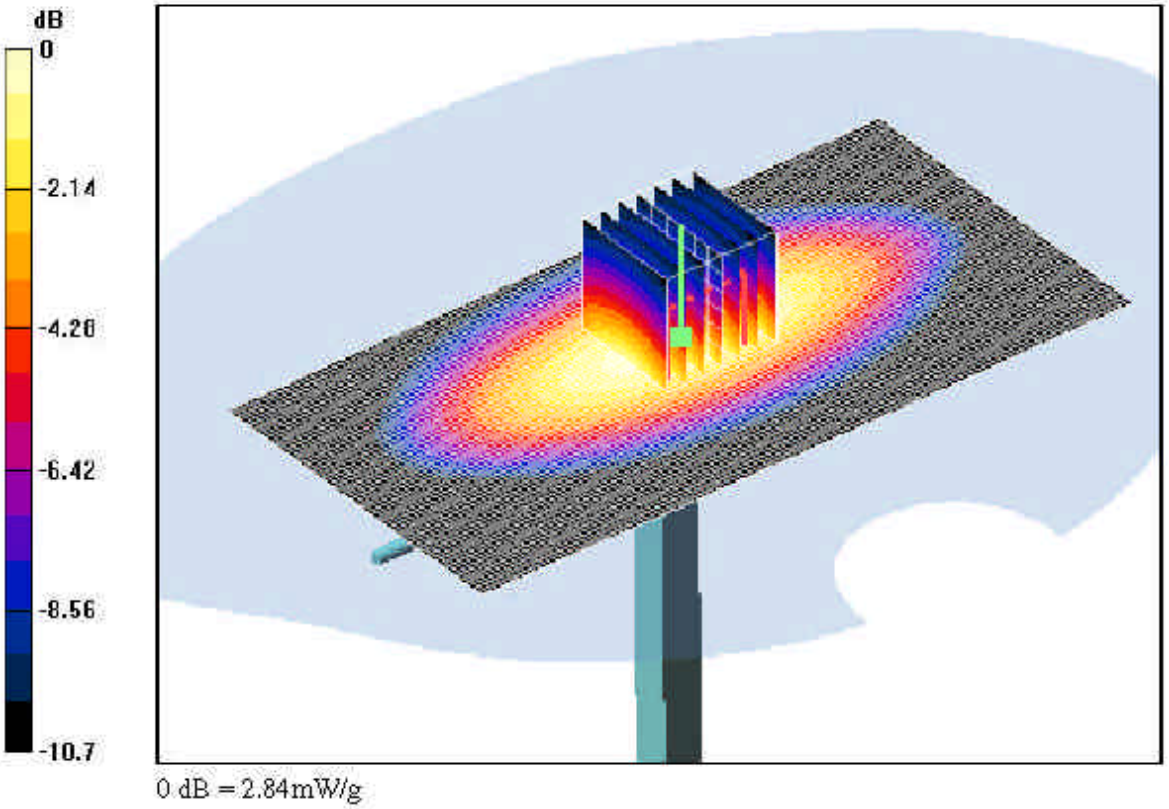
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 Brain (σ = 0.92 mho/m, ε_r = 42.28, ρ = 1000 kg/m^3)
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 03-23-2004; Ambient Temp: 22.2°C; Tissue Temp: 20.8°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE3 Sn455; Calibrated: 1/6/2004
Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Input Power = 24.0 dBm (250 mW)
SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.58 mW/g
Target SAR(1g) = 2.375 mW/g; Deviation = +2.31 %



0 dB = 2.84mW/g

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

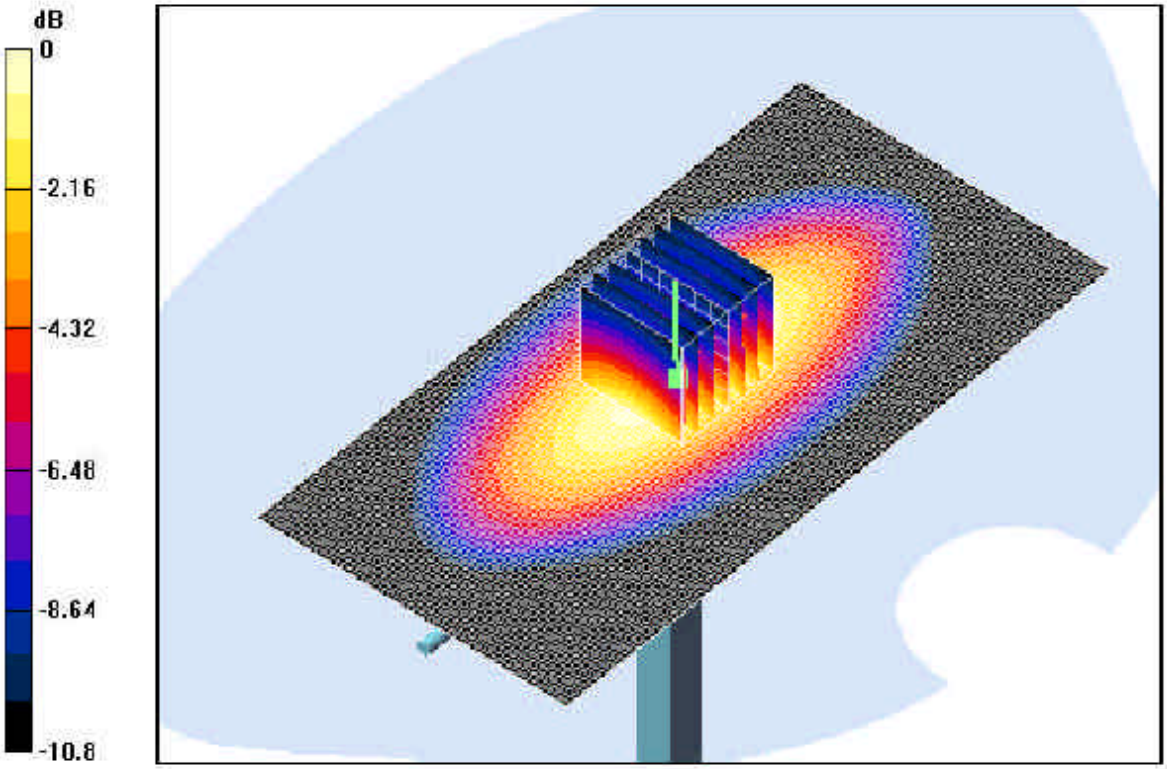
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 Brain (σ = 0.92 mho/m, ε_r = 42.28, ρ = 1000 kg/m^3)
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 03-24-2004; Ambient Temp: 22.8°C; Tissue Temp: 20.6°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE3 Sn455; Calibrated: 1/6/2004
Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.2 Build 12; Postprocessing SW: SEMCAD, V1.8 Build 93

835 MHz Dipole Validation

Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Reference **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Input Power = 24.0 dBm (250 mW)
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.57 mW/g
Target SAR(1g) = 2.375 mW/g; Deviation = +1.89 %



0 dB = 2.86mW/g