# PCTEST ENGINEERING LABORATORY, INC.

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

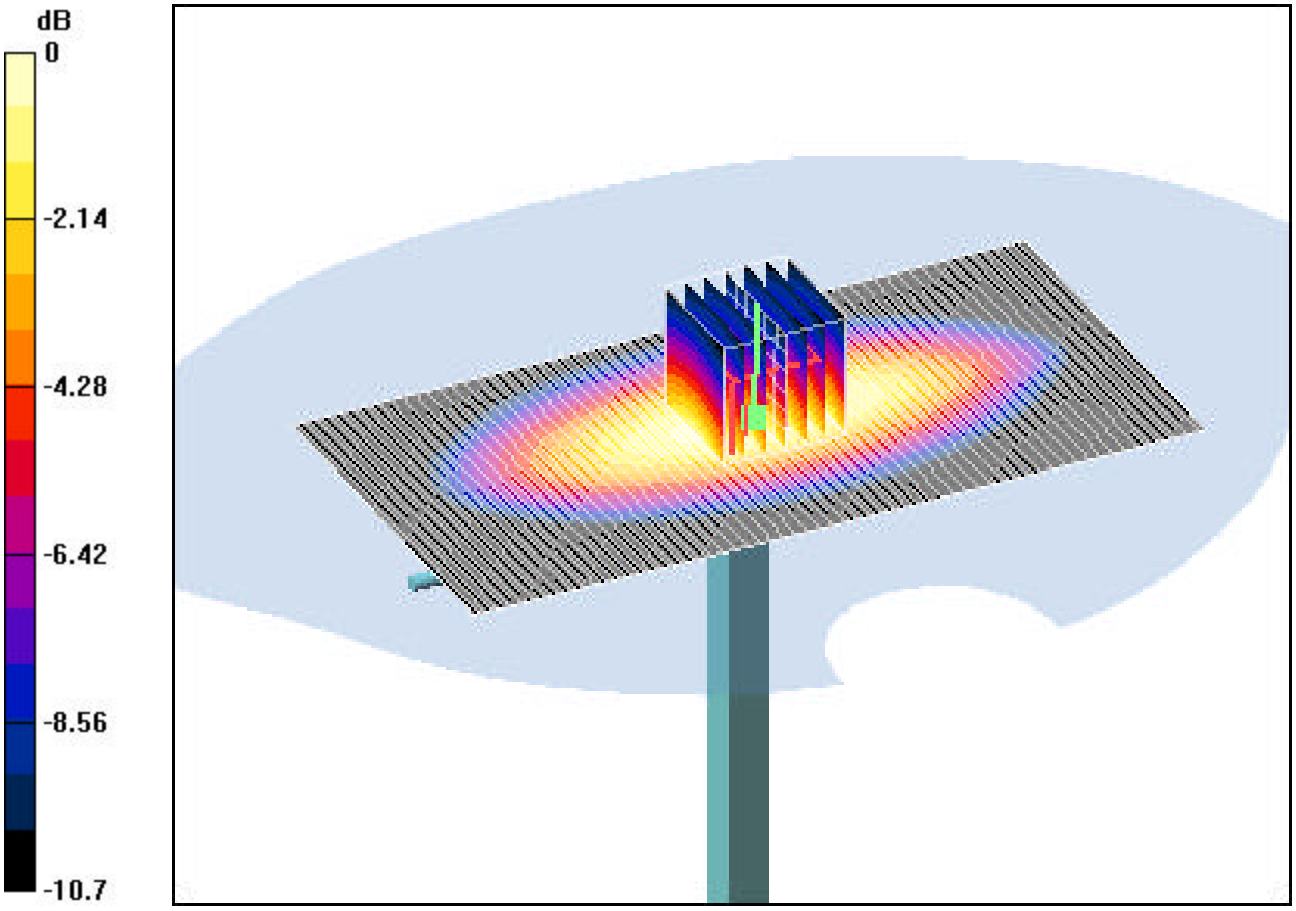
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 Brain ($\sigma$ = 0.91 mho/m, $\varepsilon_r$ = 40.82, $\rho$ = 1000 kg/m$^3$)
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-12-2004; Ambient Temp: 21.8°C; Tissue Temp: 20.5°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE3 Sn445; Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.1 Build 47; 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) = 2.41 mW/g; SAR(10 g) = 1.56 mW/g**
Target SAR(1g) = 2.375 mW/g; Deviation = +1.47 %




0 dB = 2.85mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 502**

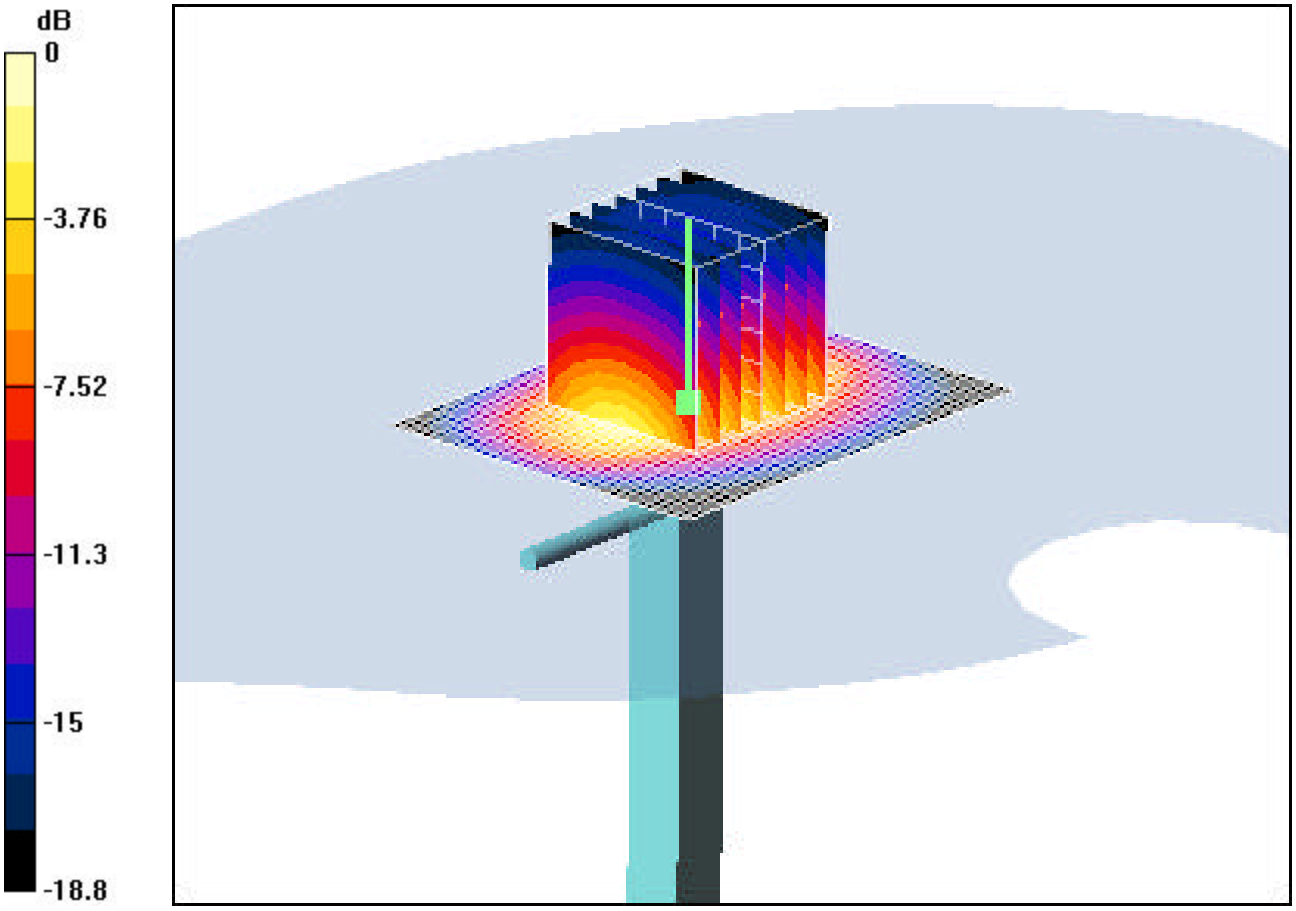
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: 1900 Brain ($\sigma$ = 1.38 mho/m, $\varepsilon_r$ = 40.43, $\rho$ = 1000 kg/m$^3$)
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-13-2004; Ambient Temp: 22.2°C; Tissue Temp: 20.2°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE3 Sn445; Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 93

**1900 MHz Dipole Validation**

**Area Scan (41x51x1):** Measurement grid: dx=15mm, dy=15mm
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Input Power = 20.0 dBm (100 mW)
**SAR(1 g) = 3.75 mW/g; SAR(10 g) = 1.88 mW/g**
Target SAR(1g) = 3.97 mW/g; Deviation = -5.54 %




0 dB = 4.88mW/g