

Date Tested: 07/27/04

Head SAR - PCS CDMA Mode - Mid Channel - Right Ear - Tilt Position (15°)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 24.1 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.3 kPa; Humidity: 37%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.41$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Right Ear - Tilt Position (15°) - Channel 600/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

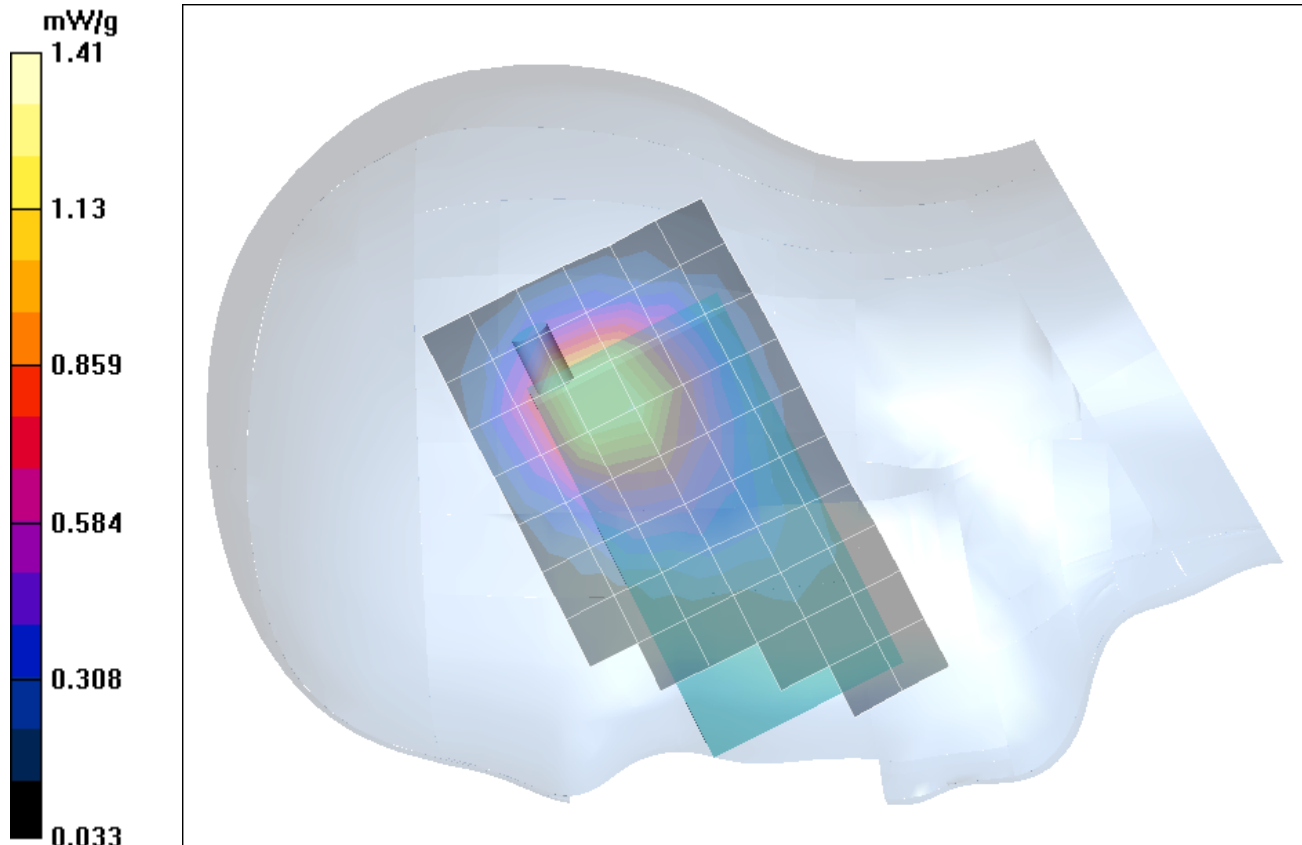
Head SAR - PCS CDMA - Right Ear - Tilt Position (15°) - Channel 600/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

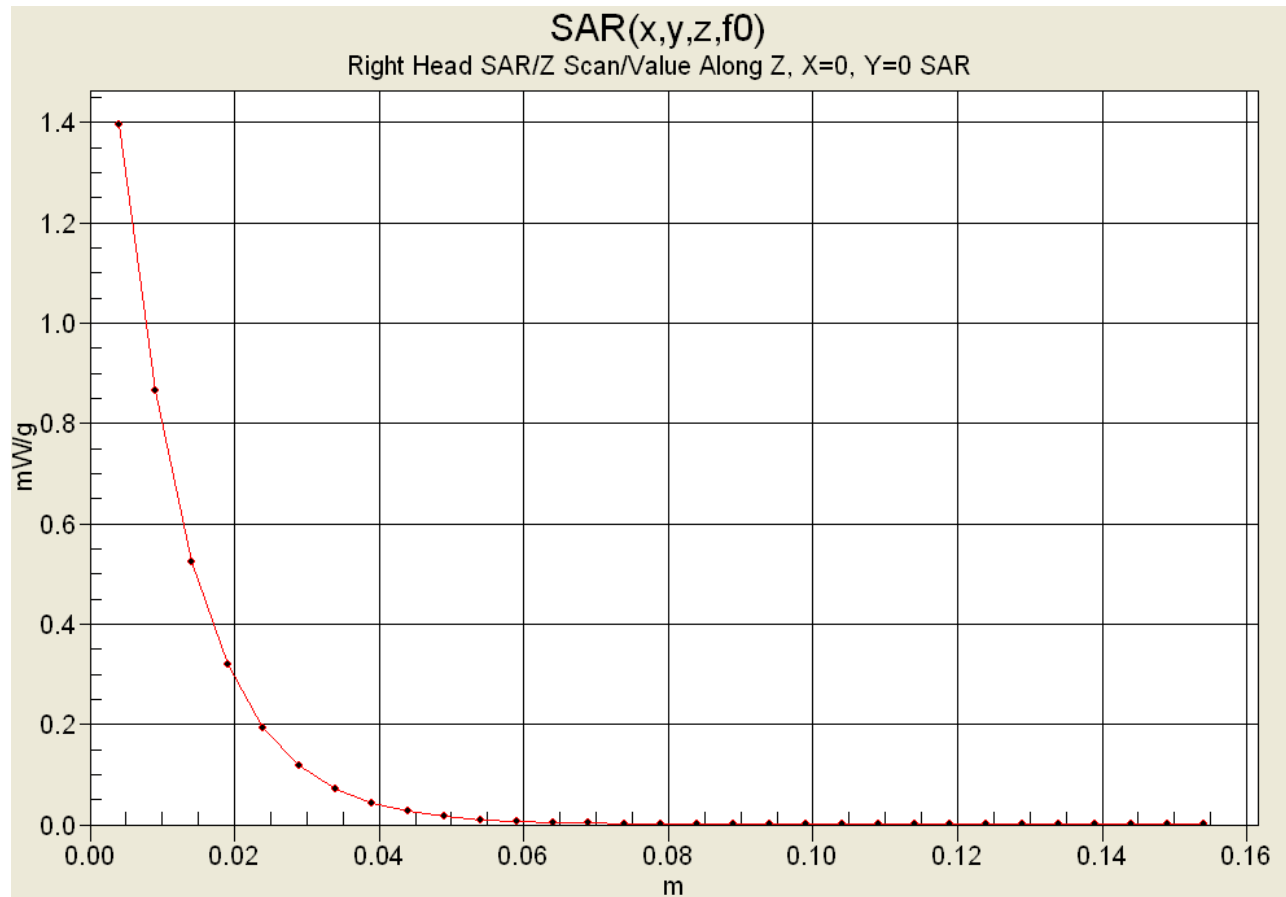
Reference Value = 29.9 V/m; Power Drift = -0.0262 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.779 mW/g



Z-Axis Scan



Date Tested: 07/27/04

Head SAR - PCS CDMA Mode - Low Channel - Right Ear - Tilt Position (15°)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 24.1 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.3 kPa; Humidity: 37%

Communication System: PCS CDMA

Frequency: 1851.25 MHz; Duty Cycle: 1:1

RF Output Power: 24.41 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.41$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Right Ear - Tilt Position (15°) - Channel 25/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

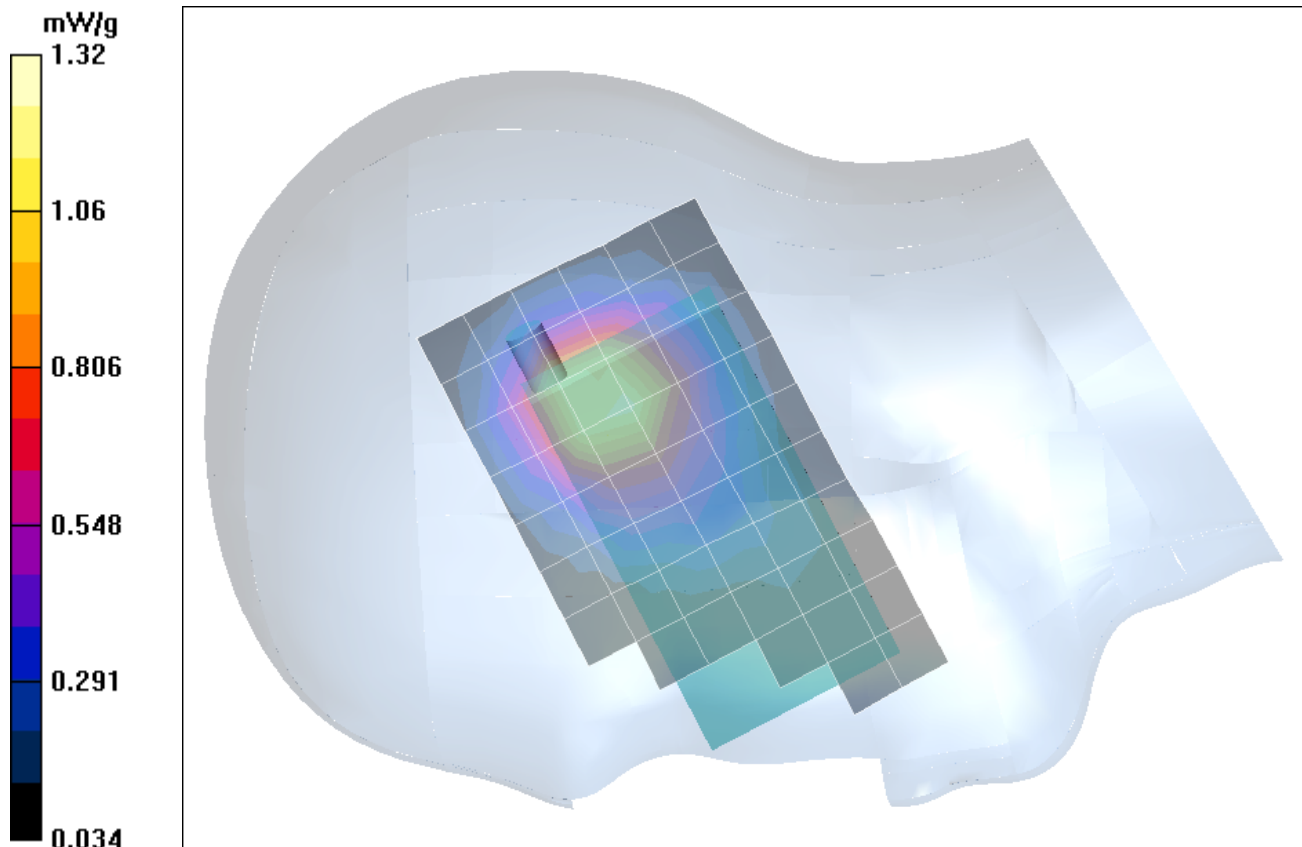
Head SAR - PCS CDMA - Right Ear - Tilt Position (15°) - Channel 25/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.3 V/m; Power Drift = -0.0419 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.743 mW/g



Date Tested: 07/27/04

Head SAR - PCS CDMA Mode - High Channel - Right Ear - Tilt Position (15°)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 24.1 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.3 kPa; Humidity: 37%

Communication System: PCS CDMA

Frequency: 1908.75 MHz; Duty Cycle: 1:1

RF Output Power: 24.06 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.41$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Right Ear - Tilt Position (15°) - Channel 1175/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

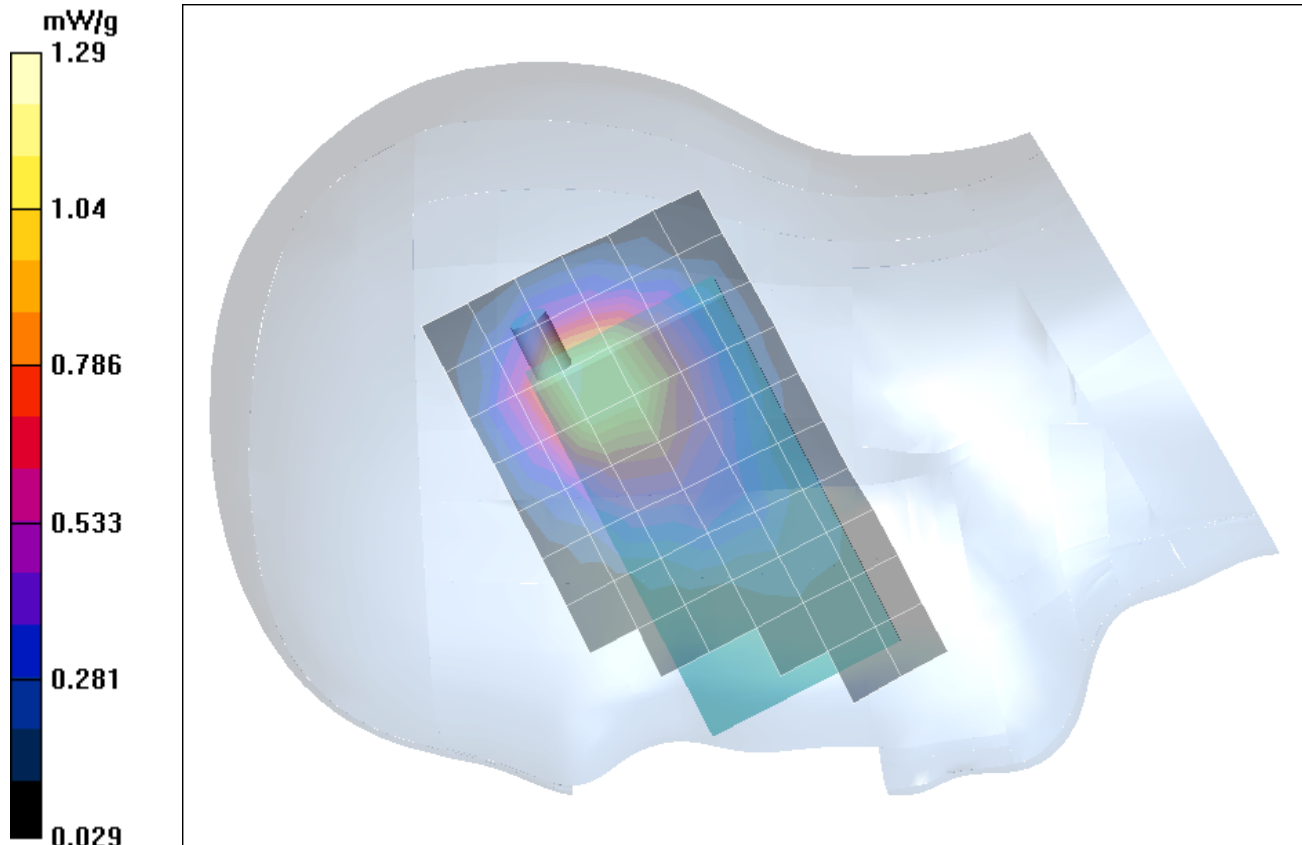
Head SAR - PCS CDMA - Right Ear - Tilt Position (15°) - Channel 1175/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.6 V/m; Power Drift = -0.203 dB

Peak SAR (extrapolated) = 1.9 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.703 mW/g



Date Tested: 07/27/04

Head SAR - PCS CDMA Mode - Mid Channel - Right Ear - Cheek/Touch Position

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027
Ambient Temp: 24.1 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.3 kPa; Humidity: 37%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.41$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 600/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 600/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.1 V/m; Power Drift = 0.0617 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.662 mW/g

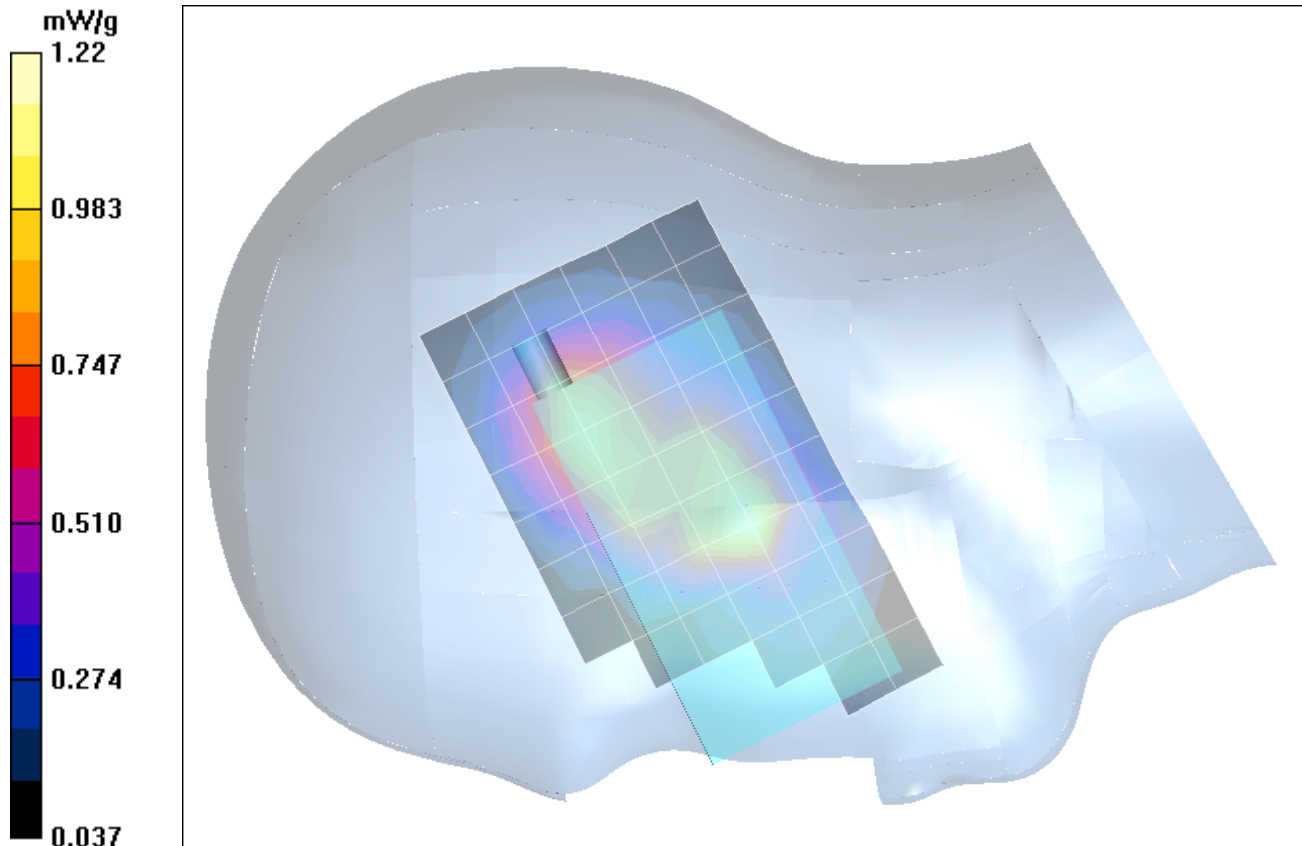
Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 600/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.1 V/m; Power Drift = 0.0617 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.996 mW/g; SAR(10 g) = 0.599 mW/g



Date Tested: 07/27/04

Head SAR - PCS CDMA Mode - Low Channel - Right Ear - Cheek/Touch Position

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 24.1 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.3 kPa; Humidity: 37%

Communication System: PCS CDMA

Frequency: 1851.25 MHz; Duty Cycle: 1:1

RF Output Power: 24.41 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 25/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 25/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.1 V/m; Power Drift = -0.0545 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.586 mW/g

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 25/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 1.39 W/kg

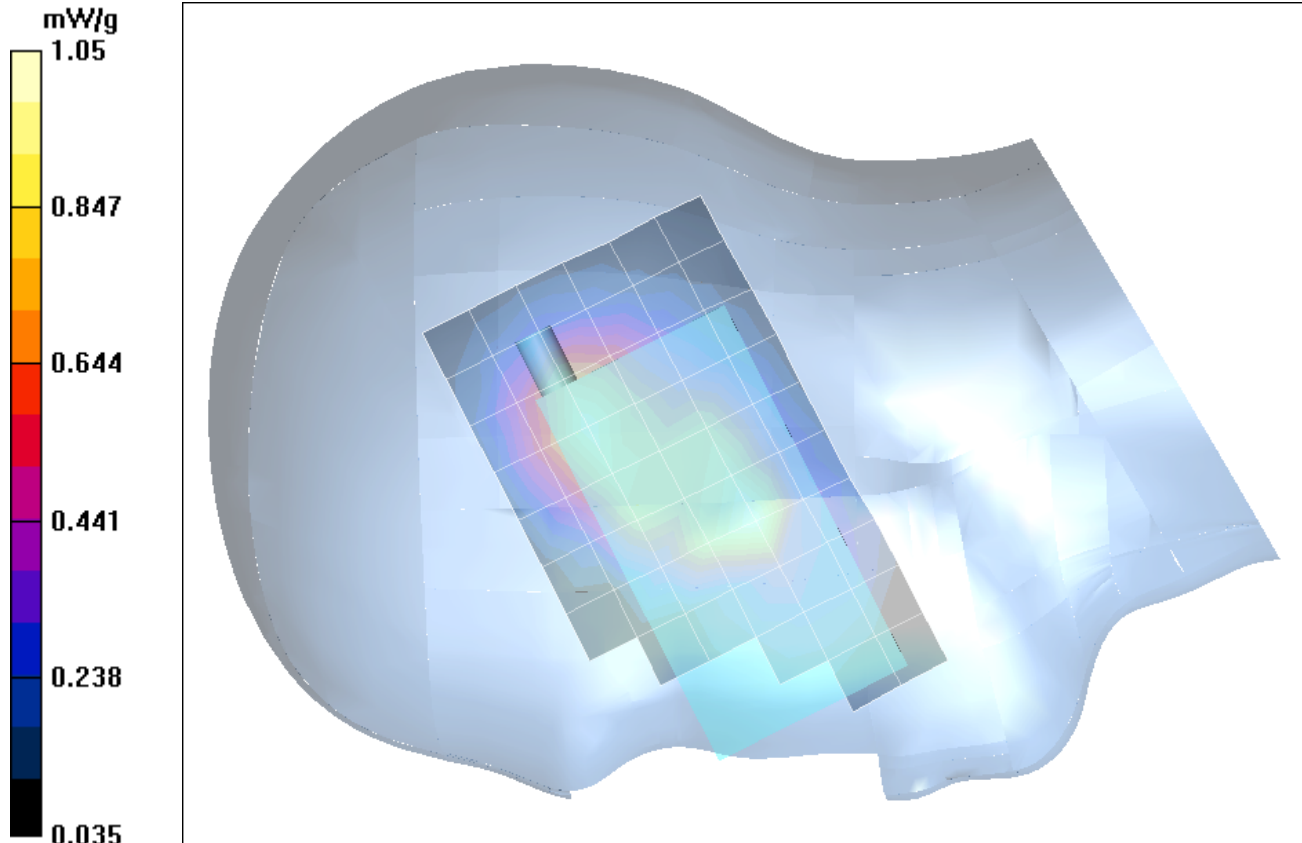
SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.535 mW/g

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 25/Zoom Scan (7x7x7)/Cube 2:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.772 mW/g; SAR(10 g) = 0.495 mW/g



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - High Channel - Right Ear - Cheek/Touch Position

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1908.75 MHz; Duty Cycle: 1:1

RF Output Power: 24.06 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 1175/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.5 V/m; Power Drift = -0.0446 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.642 mW/g

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 1.56 W/kg

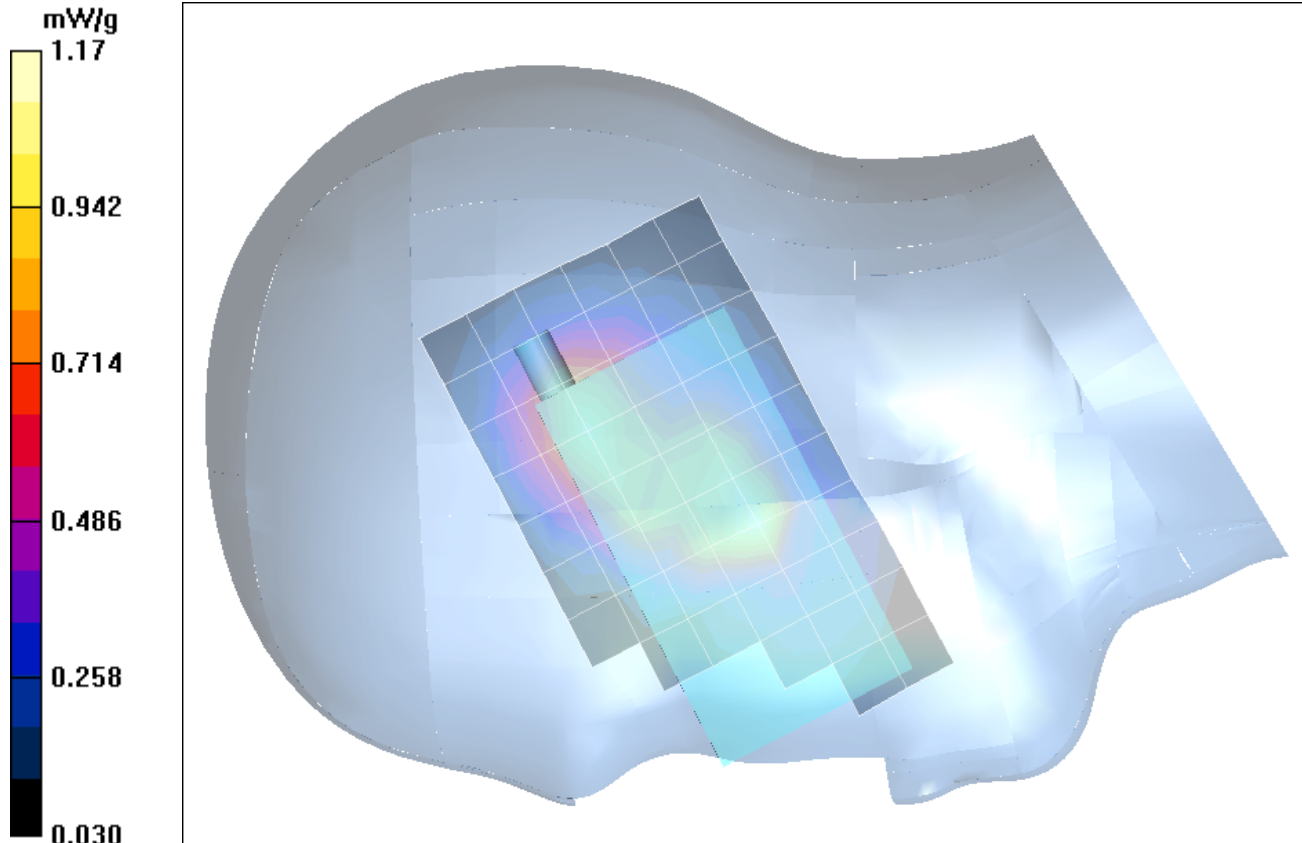
SAR(1 g) = 0.953 mW/g; SAR(10 g) = 0.564 mW/g

Head SAR - PCS CDMA - Right Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 2:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.834 mW/g; SAR(10 g) = 0.533 mW/g



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - Mid Channel - Left Ear - Cheek/Touch Position

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 600/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 600/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = 0.0257 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.717 mW/g

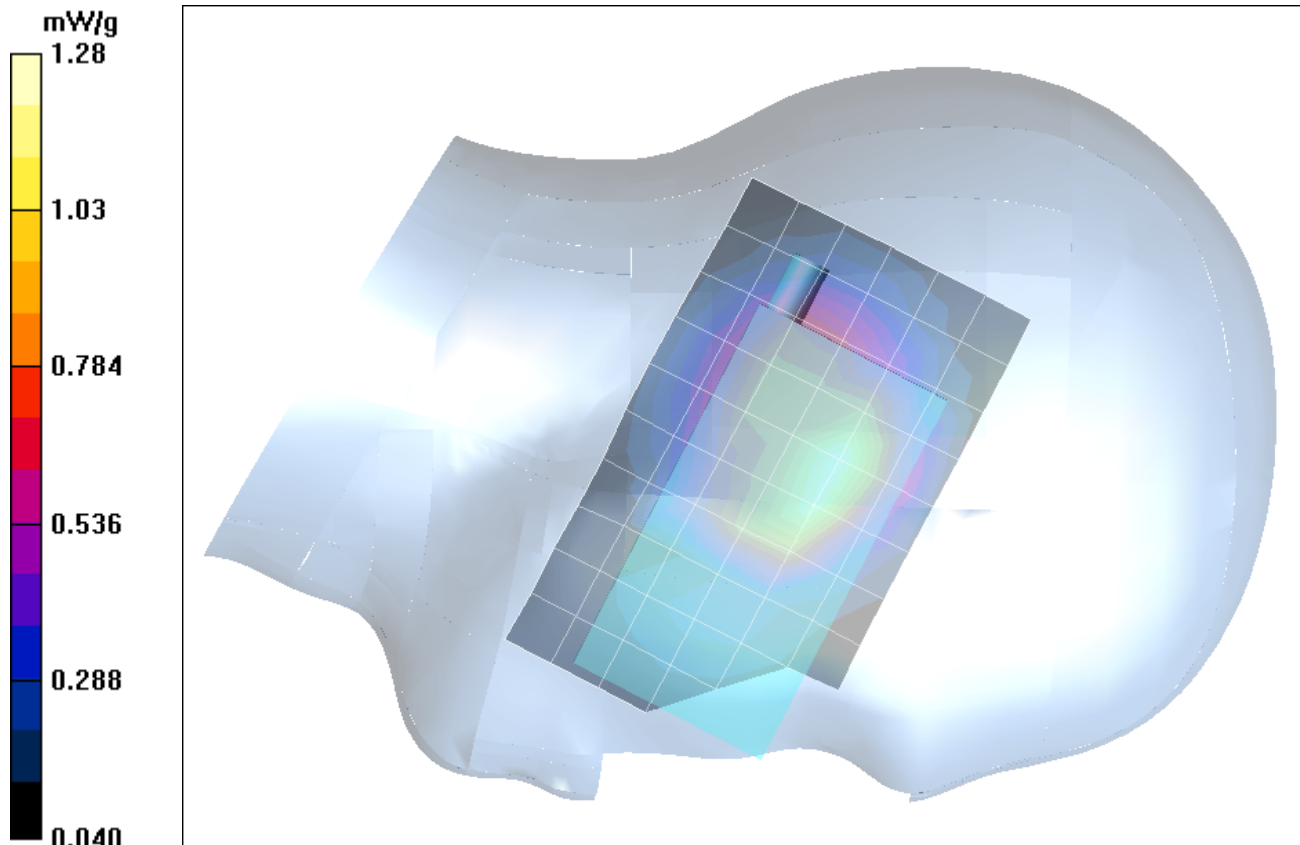
Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 600/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = 0.0257 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.812 mW/g; SAR(10 g) = 0.538 mW/g



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - Low Channel - Left Ear - Cheek/Touch Position

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1851.25 MHz; Duty Cycle: 1:1

RF Output Power: 24.41 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 25/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 25/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.0360 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.651 mW/g

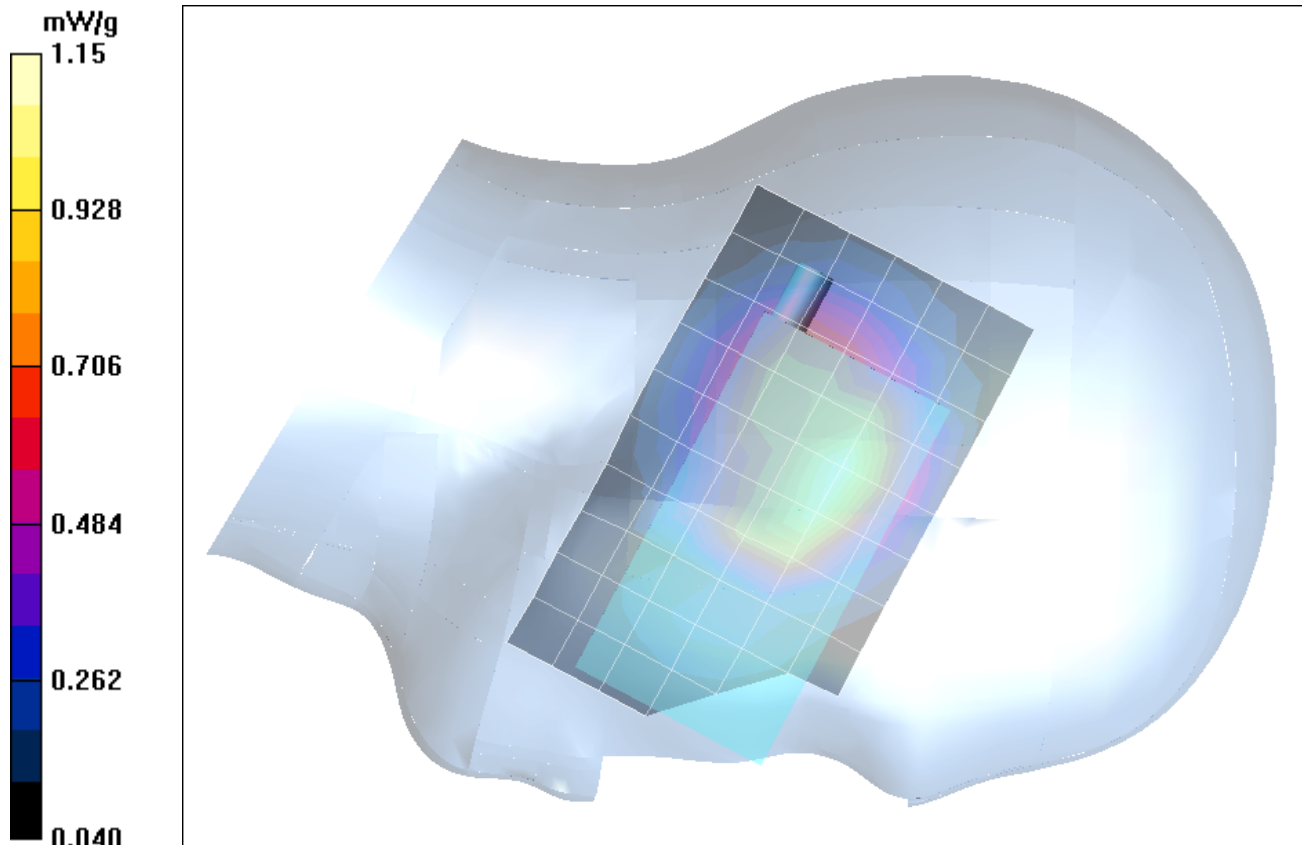
Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 25/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.0360 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.765 mW/g; SAR(10 g) = 0.507 mW/g



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - High Channel - Left Ear - Cheek/Touch Position

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1908.75 MHz; Duty Cycle: 1:1

RF Output Power: 24.06 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 1175/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.4 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.693 mW/g

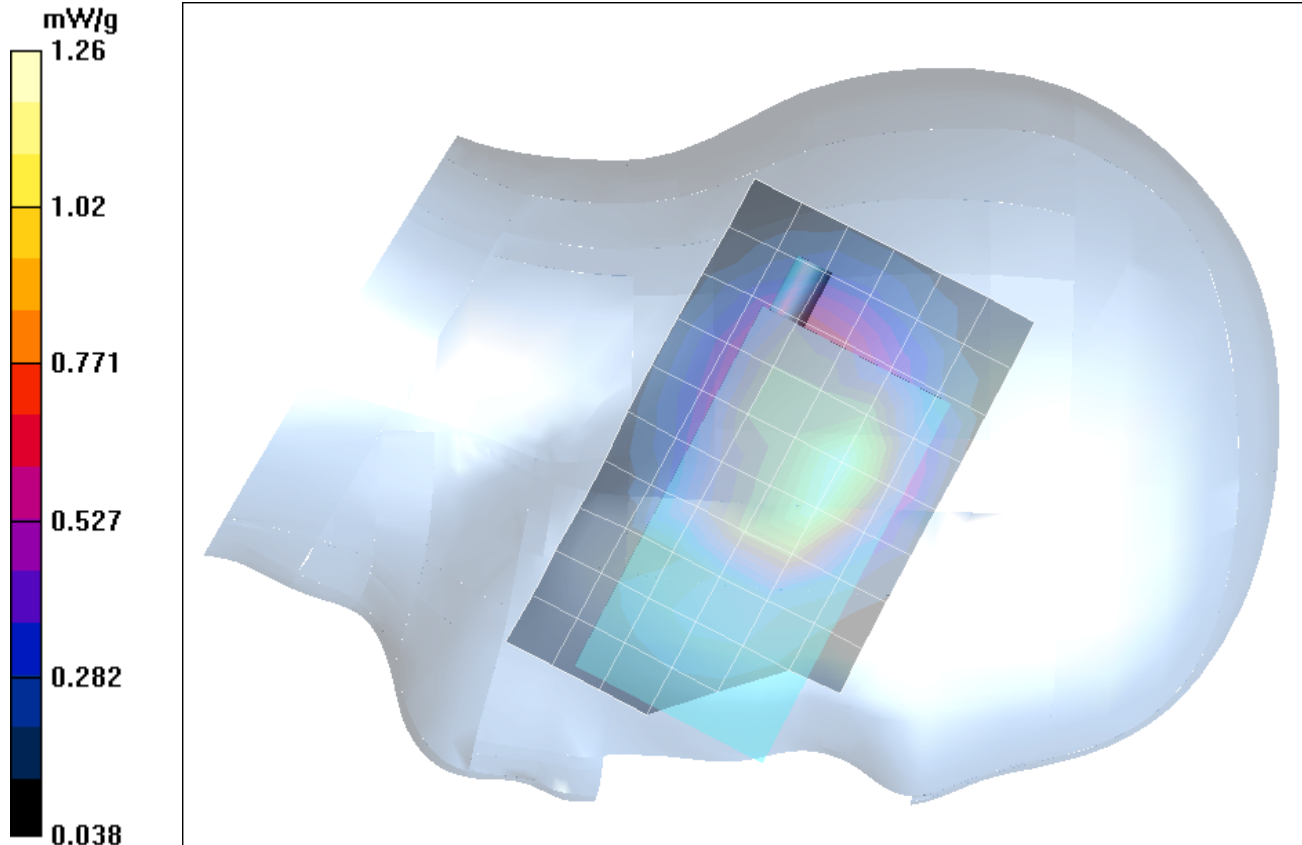
Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.4 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.508 mW/g



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - Mid Channel - Left Ear - Tilt Position (15°)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 600/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

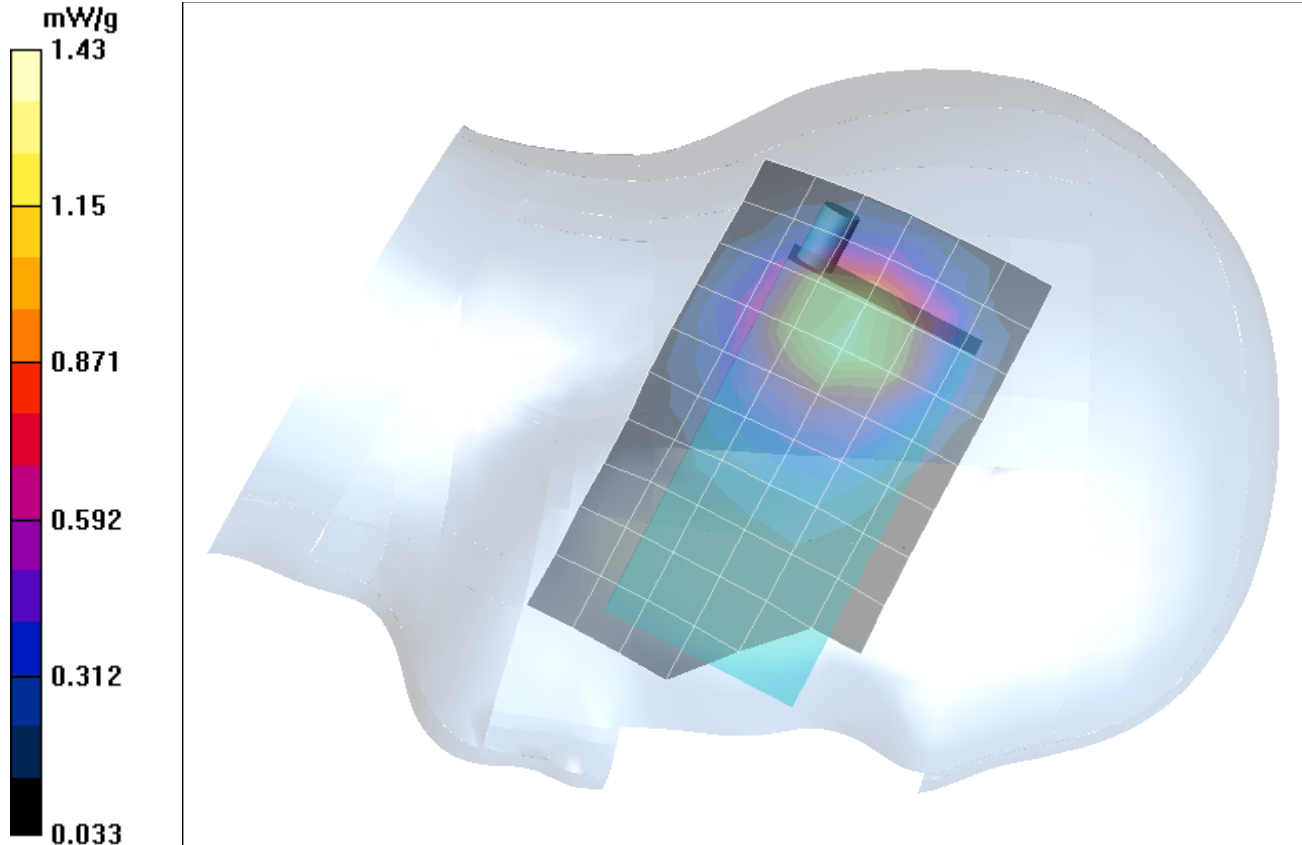
Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 600/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

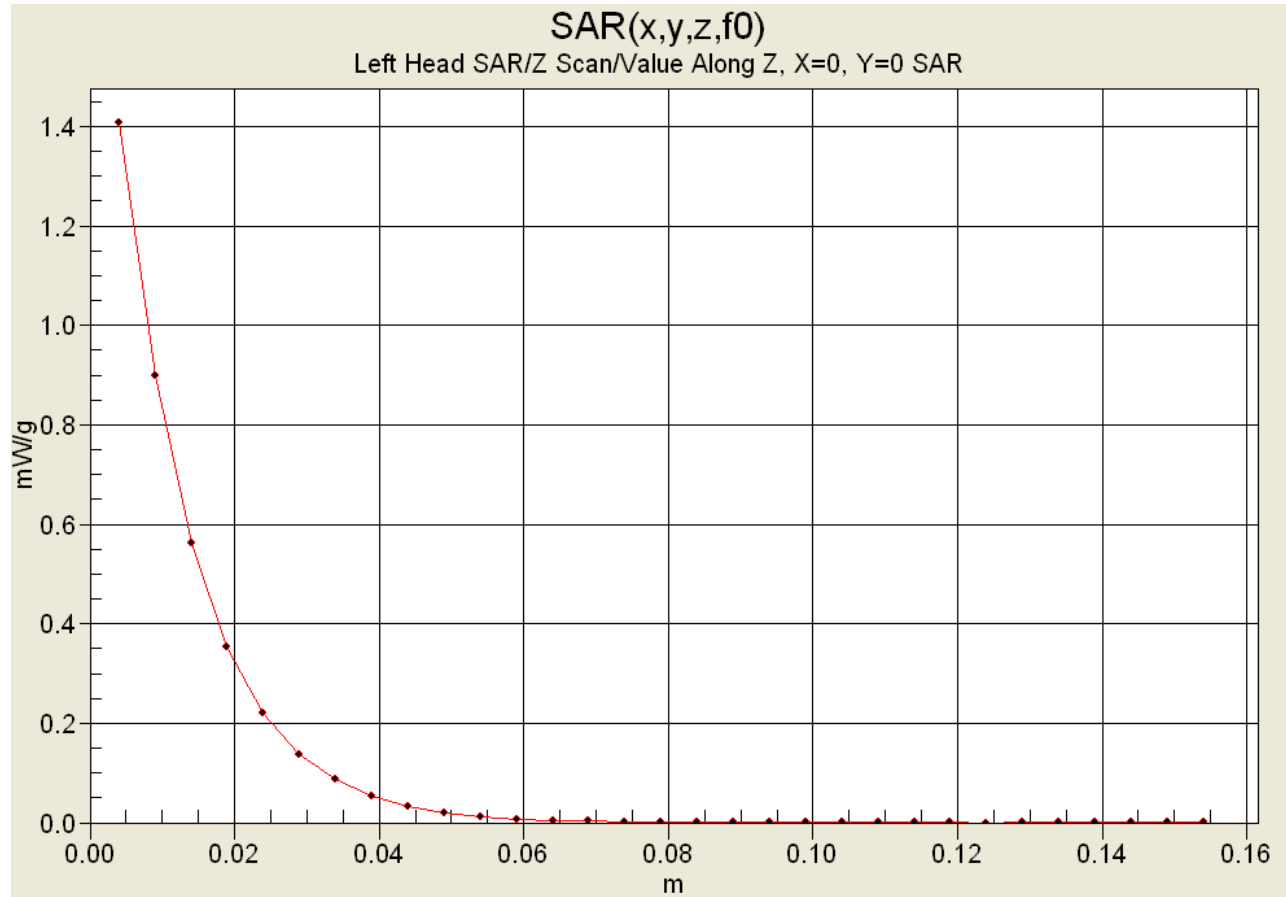
Reference Value = 33 V/m; Power Drift = -0.0244 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.825 mW/g



Z-Axis Scan



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - Low Channel - Left Ear - Tilt Position (15°)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1851.25 MHz; Duty Cycle: 1:1

RF Output Power: 24.41 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 25/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

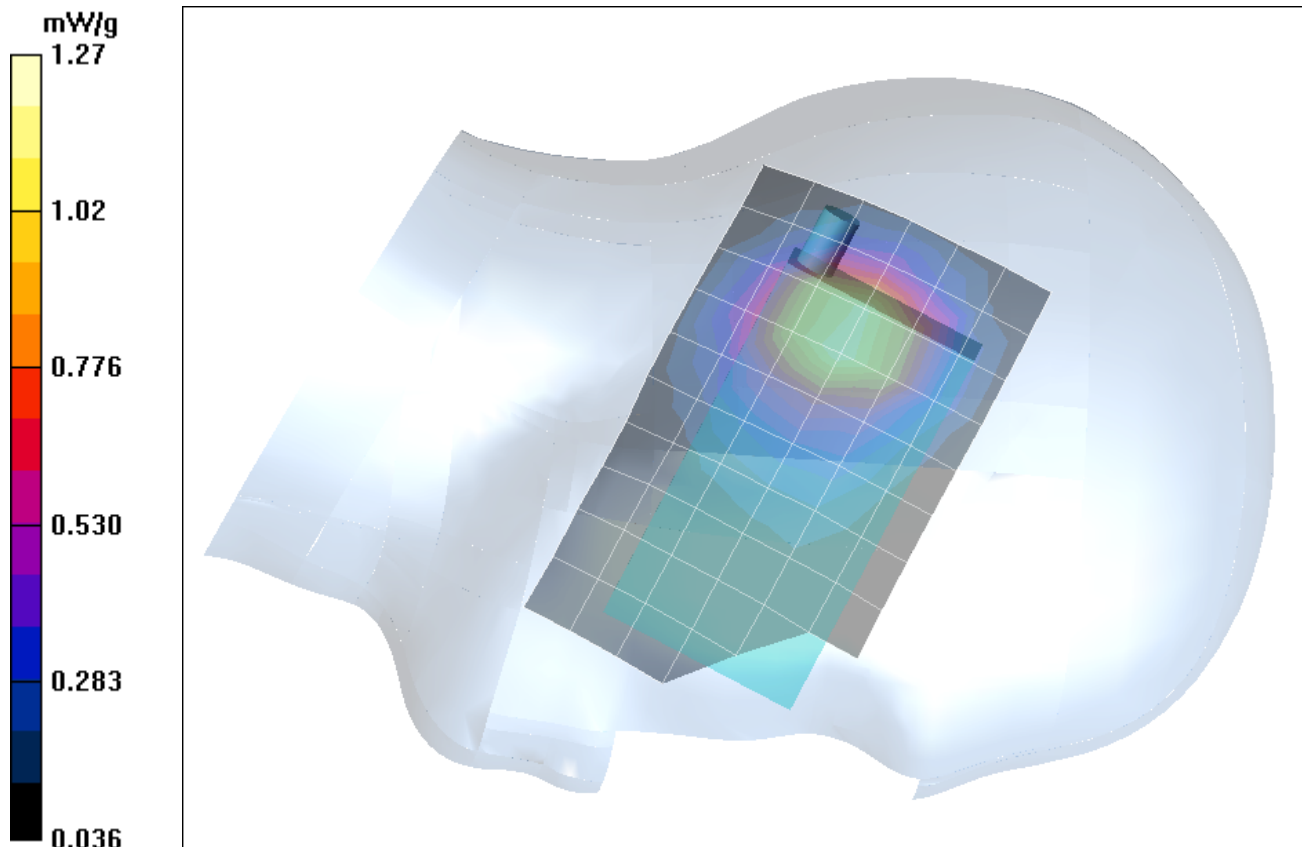
Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 25/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.4 V/m; Power Drift = -0.0604 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.742 mW/g



Date Tested: 07/28/04

Head SAR - PCS CDMA Mode - High Channel - Left Ear - Tilt Position (15°)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 23.9 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 102.5 kPa; Humidity: 35%

Communication System: PCS CDMA

Frequency: 1908.75 MHz; Duty Cycle: 1:1

RF Output Power: 24.06 dBm (Conducted)

3.7V 1900mAh Li-Ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 1175/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

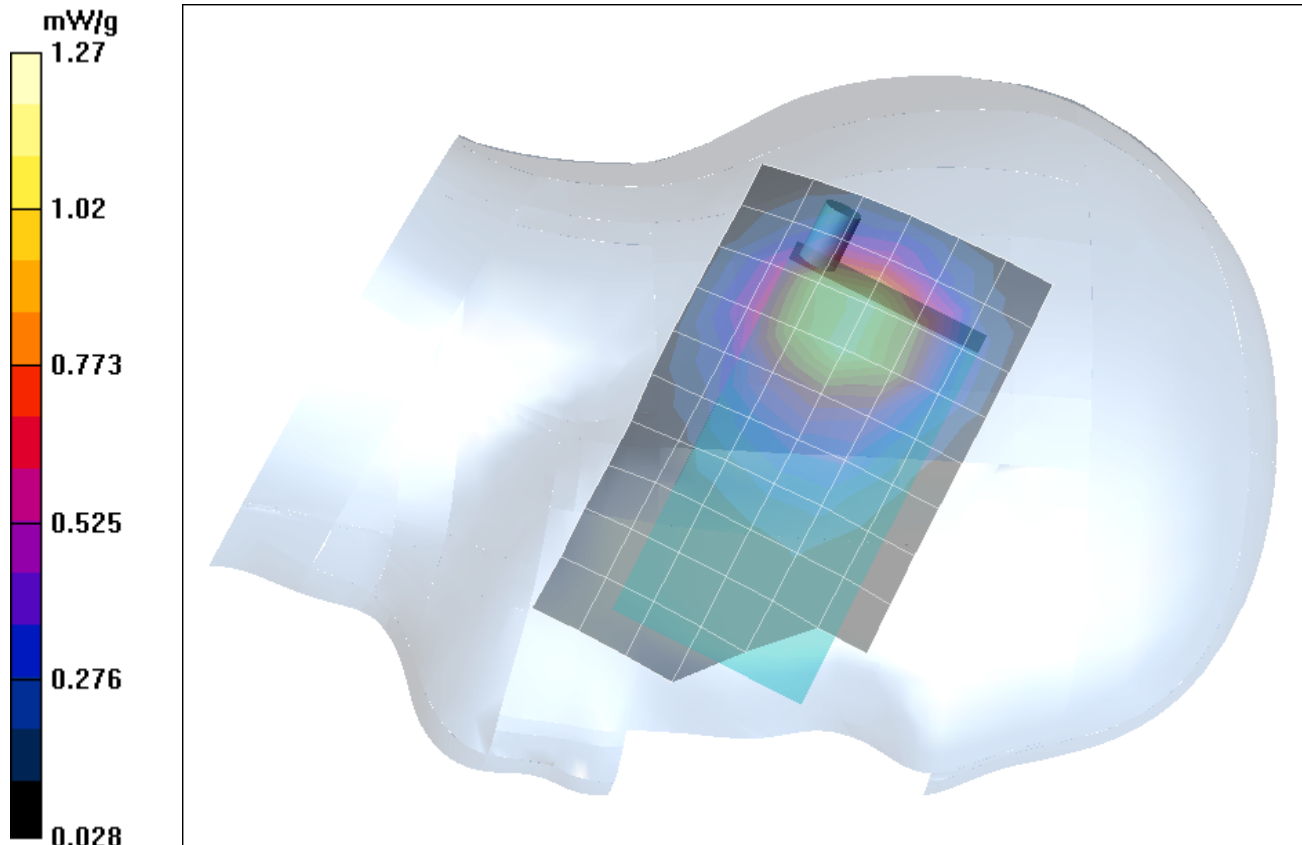
Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 1175/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.1 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.731 mW/g



Date Tested: 07/30/04

Head SAR - PCS CDMA Mode - Mid Channel - Left Ear - Tilt Position (15°) With Aluminum Case Accessory (SKU#3202WW)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 24.8 °C; Fluid Temp: 23.0 °C; Barometric Pressure: 101.9 kPa; Humidity: 39%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 600/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

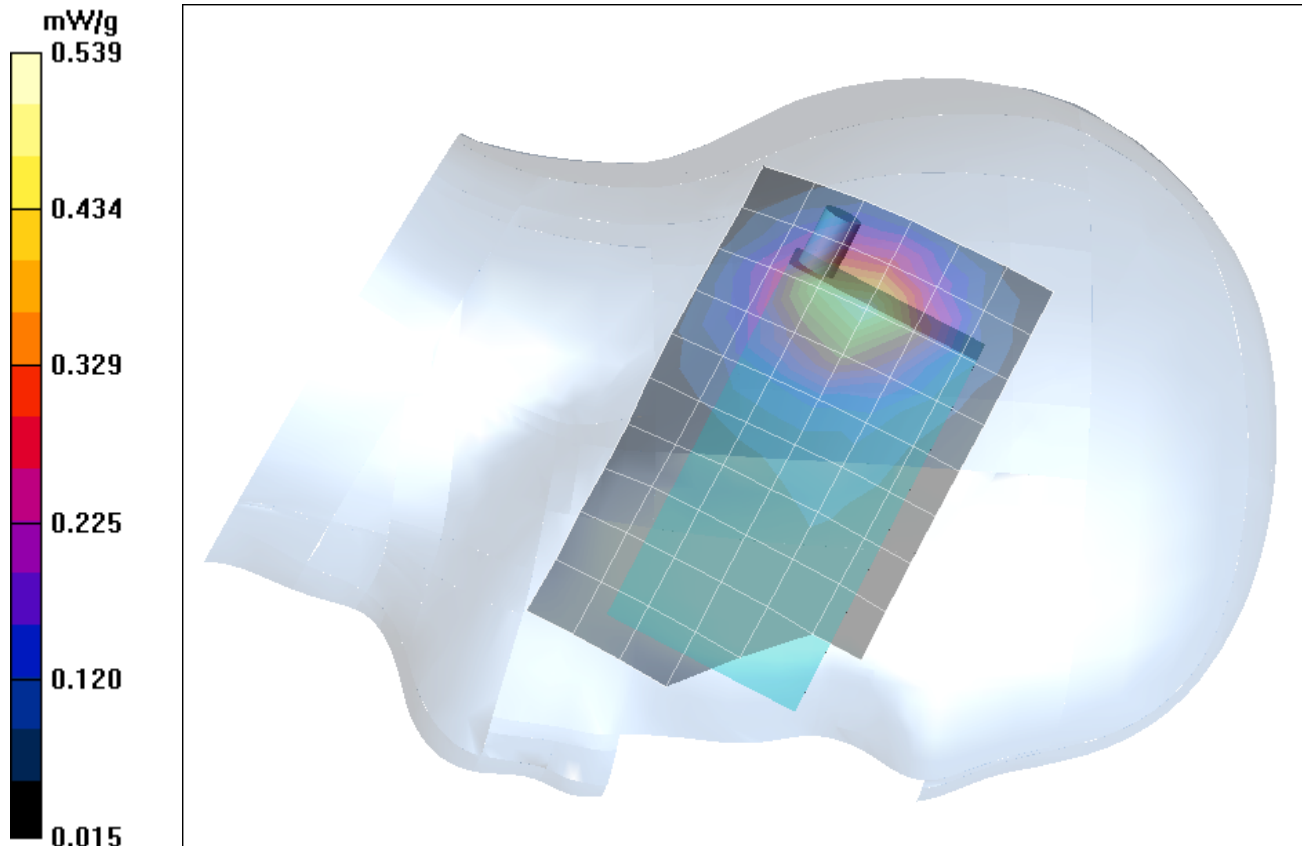
Head SAR - PCS CDMA - Left Ear - Tilt Position (15°) - Channel 600/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

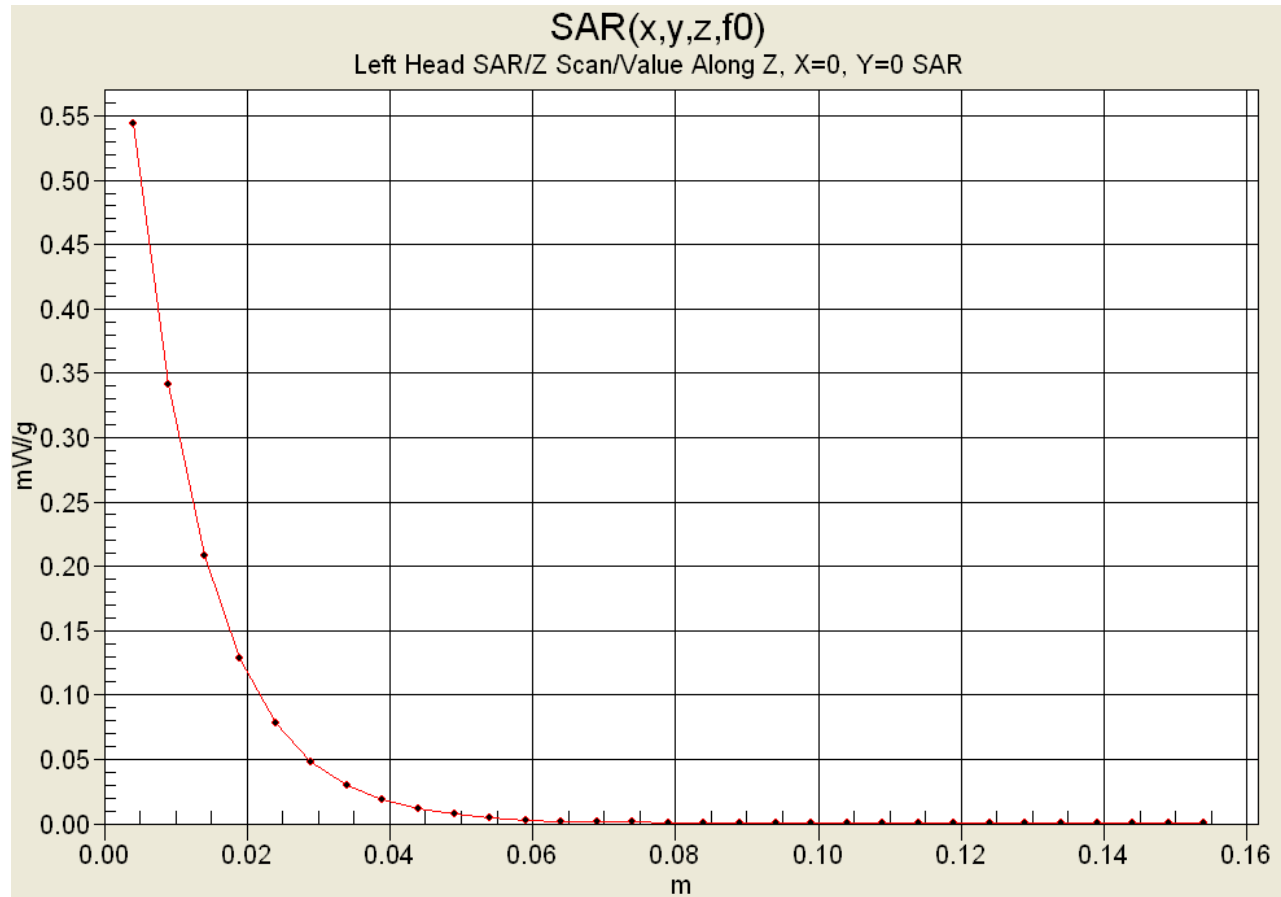
Reference Value = 17.9 V/m; Power Drift = 0.0110 dB

Peak SAR (extrapolated) = 0.741 W/kg

SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.292 mW/g



Z-Axis Scan



Date Tested: 07/30/04

Head SAR - PCS CDMA Mode - High Channel - Left Ear - Cheek/Touch Position With Aluminum Case Accessory (SKU#3202WW)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 24.8 °C; Fluid Temp: 23.0 °C; Barometric Pressure: 101.9 kPa; Humidity: 39%

Communication System: PCS CDMA

Frequency: 1908.75 MHz; Duty Cycle: 1:1

RF Output Power: 24.06 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn370; Calibrated: 14/05/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 1175/Area Scan (7x11x1):

Measurement grid: dx=15mm, dy=15mm

Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.527 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.219 mW/g

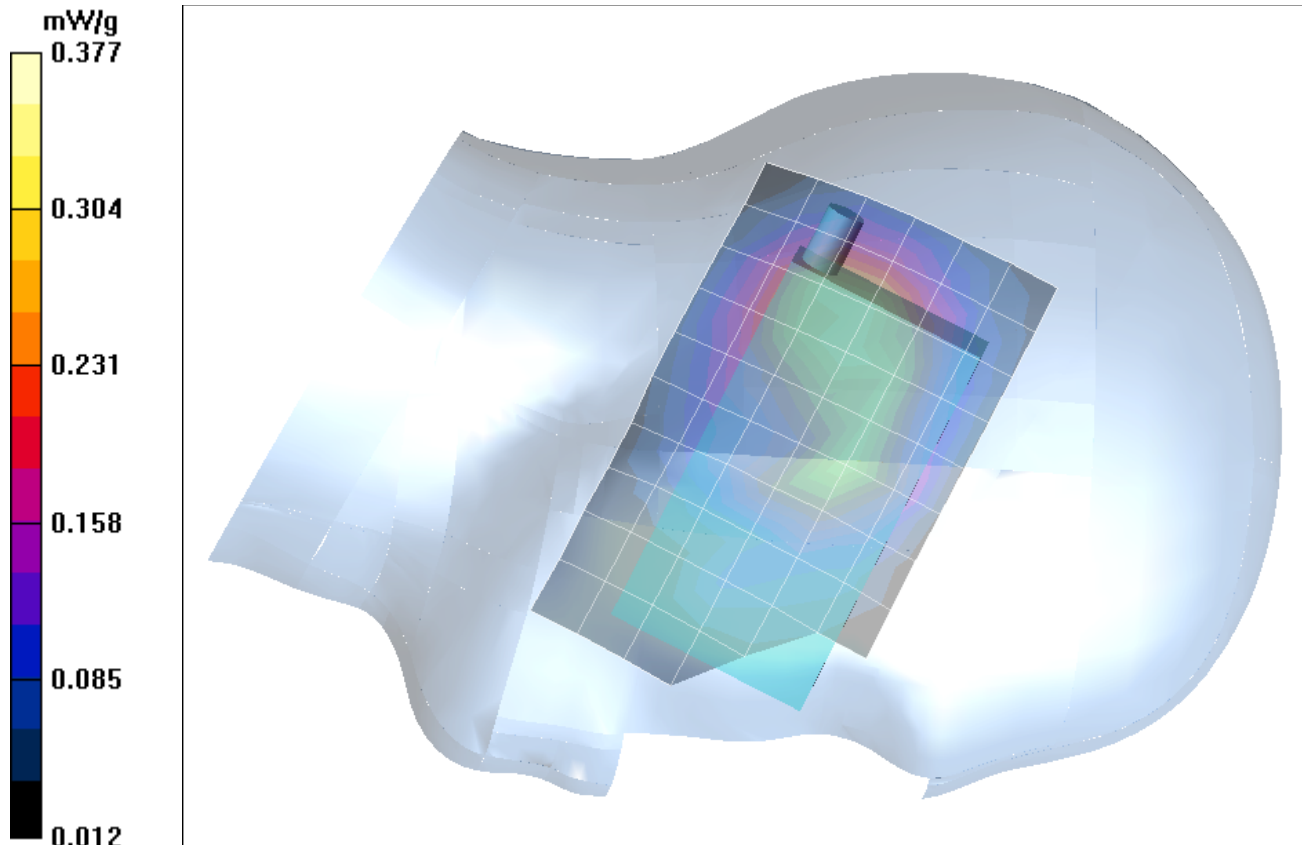
Head SAR - PCS CDMA - Left Ear - Cheek/Touch Position - Channel 1175/Zoom Scan (7x7x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.197 mW/g



Date Tested: 08/18/04

Head SAR - PCS CDMA Mode - Mid Channel - Left Ear - Tilt Position (15°) Simultaneous Transmit with Co-located Bluetooth Transmitter (Broadcom BCM-2035)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027
Ambient Temp: 24.4 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.3 kPa; Humidity: 43%

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Communication System: PCS CDMA
Frequency: 1880.00 MHz; Duty Cycle: 1:1
RF Output Power: 24.27 dBm (Conducted)
Frequency: 2441 MHz; Duty Cycle: 1:1 (Bluetooth)
RF Output Power: -5.1 dBm (Peak Conducted) Bluetooth
Communication System: Modulated Fixed Frequency (Bluetooth)
Medium: HSL1880 ($\sigma = 1.40$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³)
- Probe: ET3DV6 - SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Head SAR - PCS CDMA & Bluetooth - Left Ear - Tilt Position (15°) - Channel 600

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

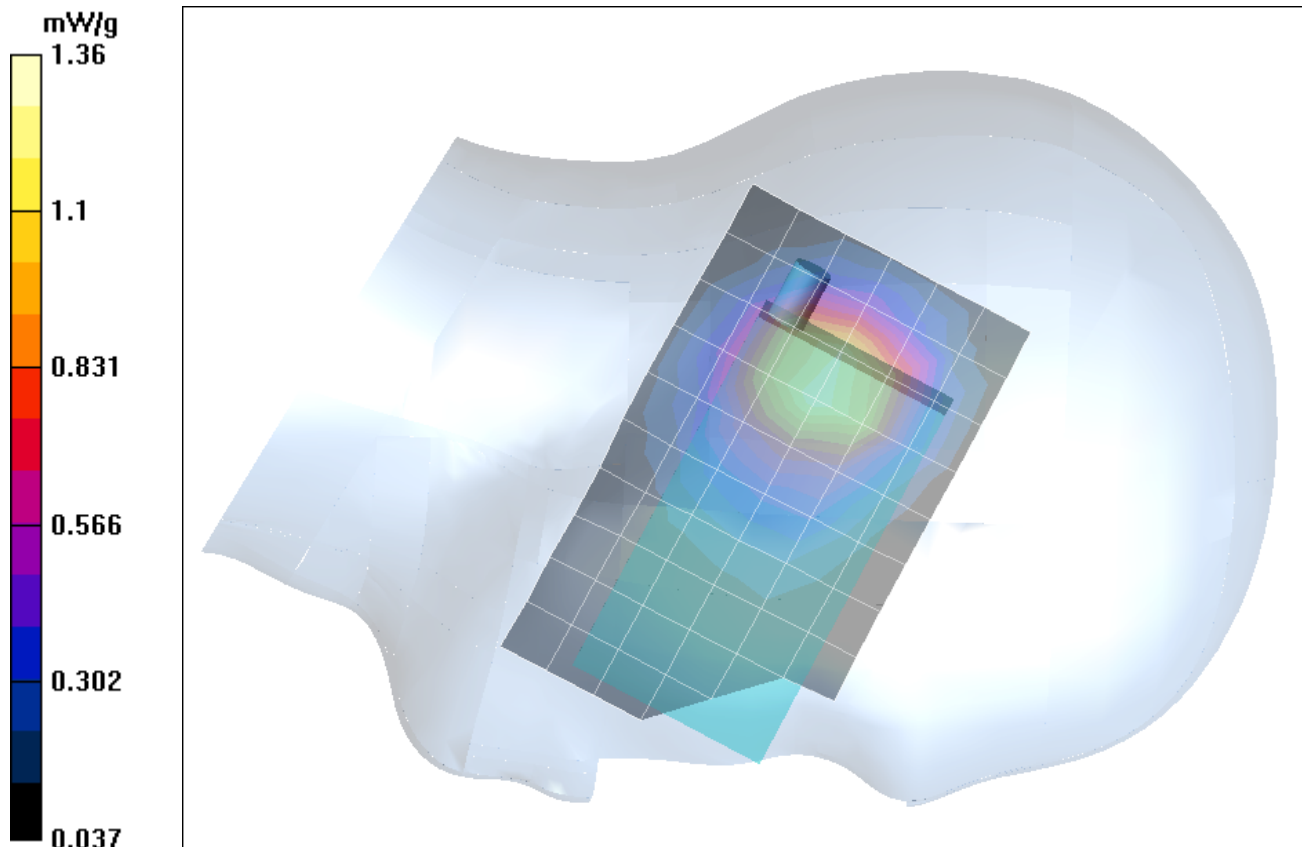
Head SAR - PCS CDMA & Bluetooth - Left Ear - Tilt Position (15°) - Channel 600

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

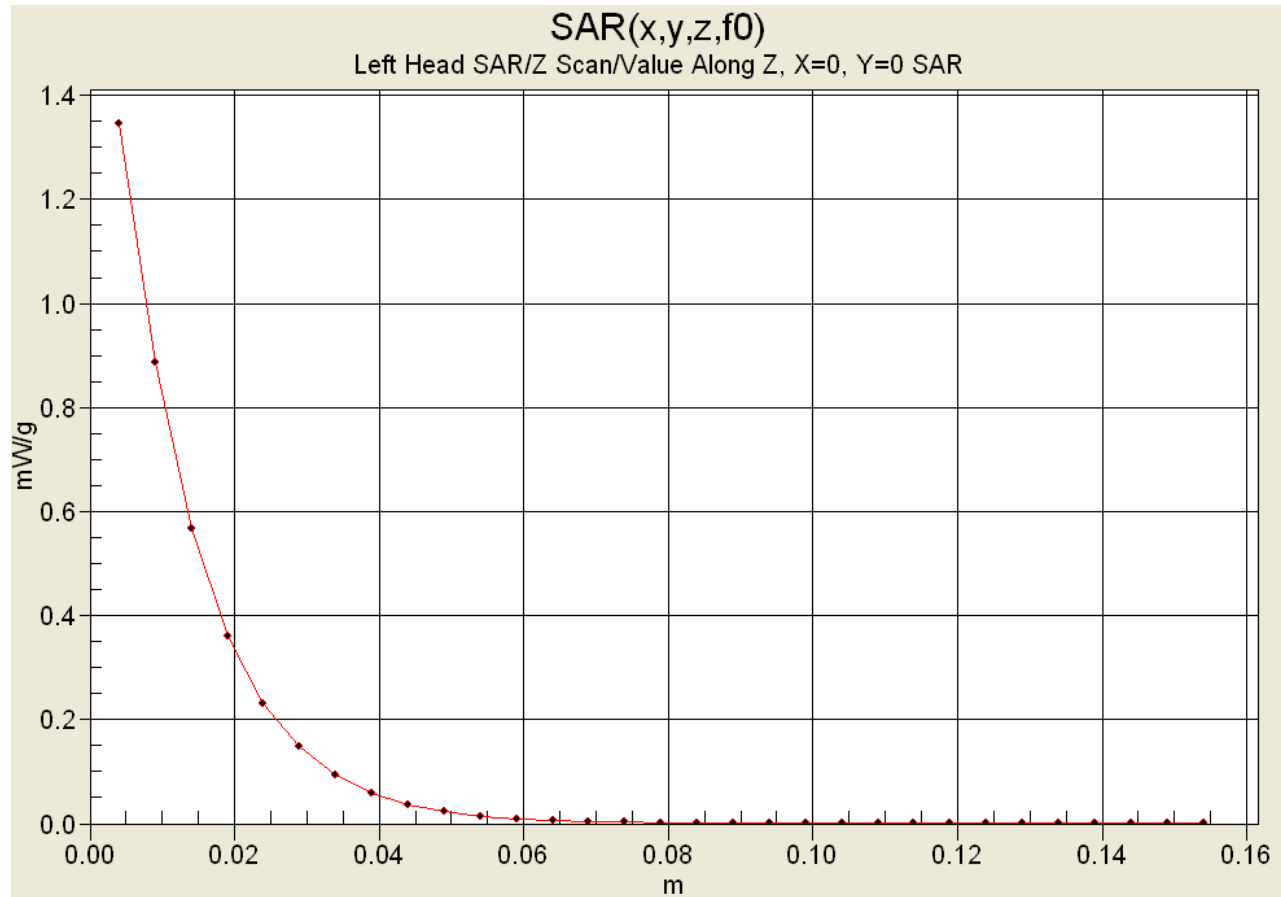
Reference Value = 32.7 V/m; Power Drift = -0.0790 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.788 mW/g



Z-Axis Scan



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - Mid Channel - With Leather Side Case (Front of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Leather Side Case with Belt-Clip (SKU#3180WW), Generic Ear-Microphone

Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 836.52 MHz; Duty Cycle: 1:1
RF Output Power: 24.46 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

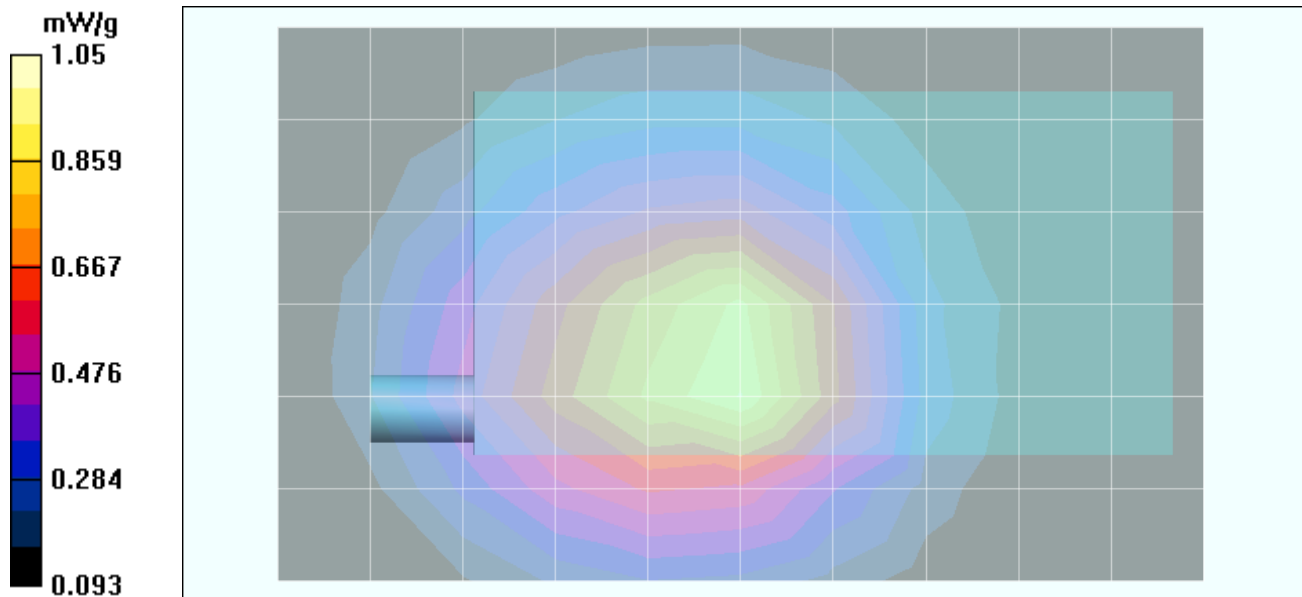
Body-Worn - Cellular CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 384 Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Body-Worn - Cellular CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 384 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

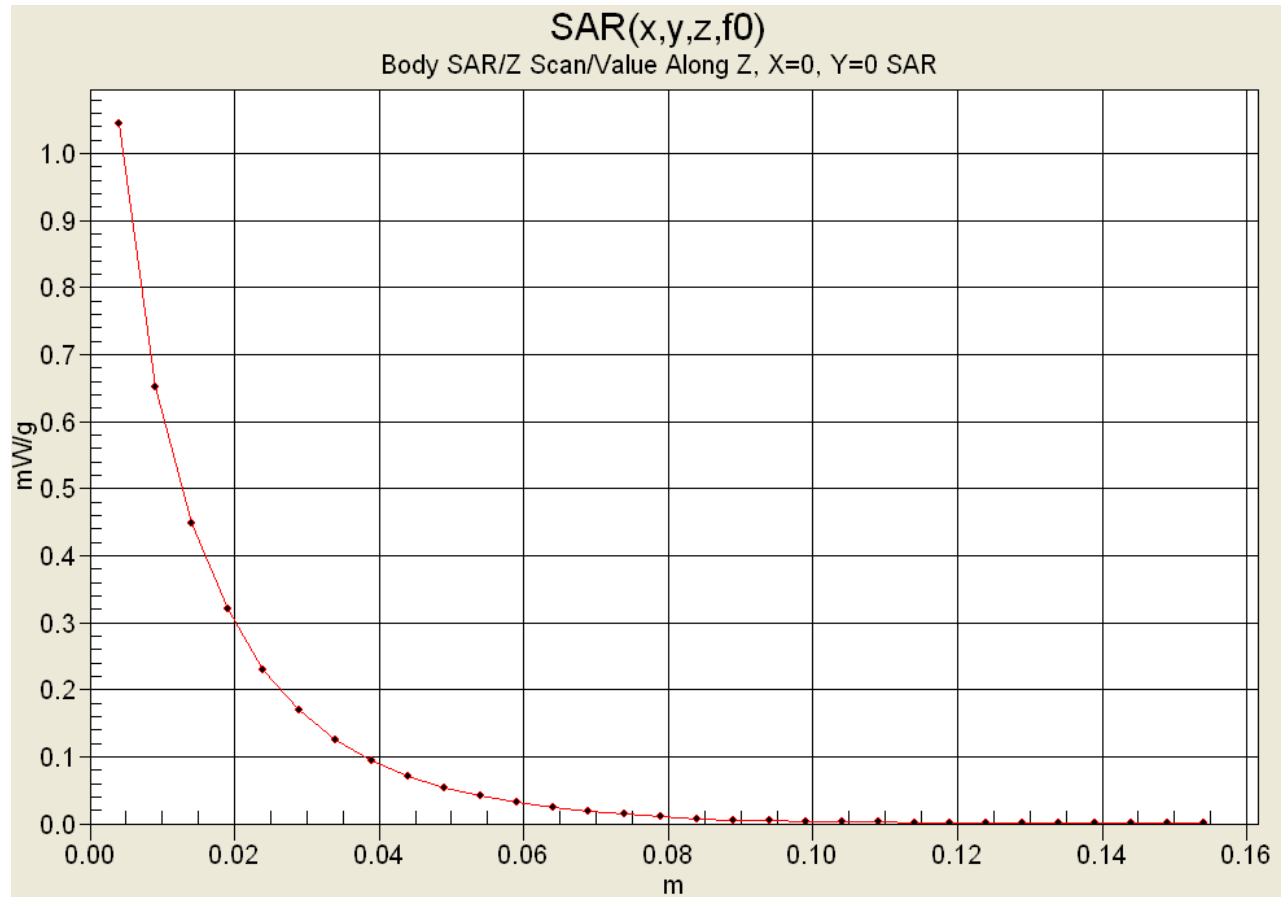
Reference Value = 28.1 V/m; Power Drift = -0.00742 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.615 mW/g



Z-Axis Scan



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - Low Channel - With Leather Side Case (Front of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Leather Side Case with Belt-Clip (SKU#3180WW), Generic Ear-Microphone

Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 824.70 MHz; Duty Cycle: 1:1
RF Output Power: 24.37 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - Cellular CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 1013
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

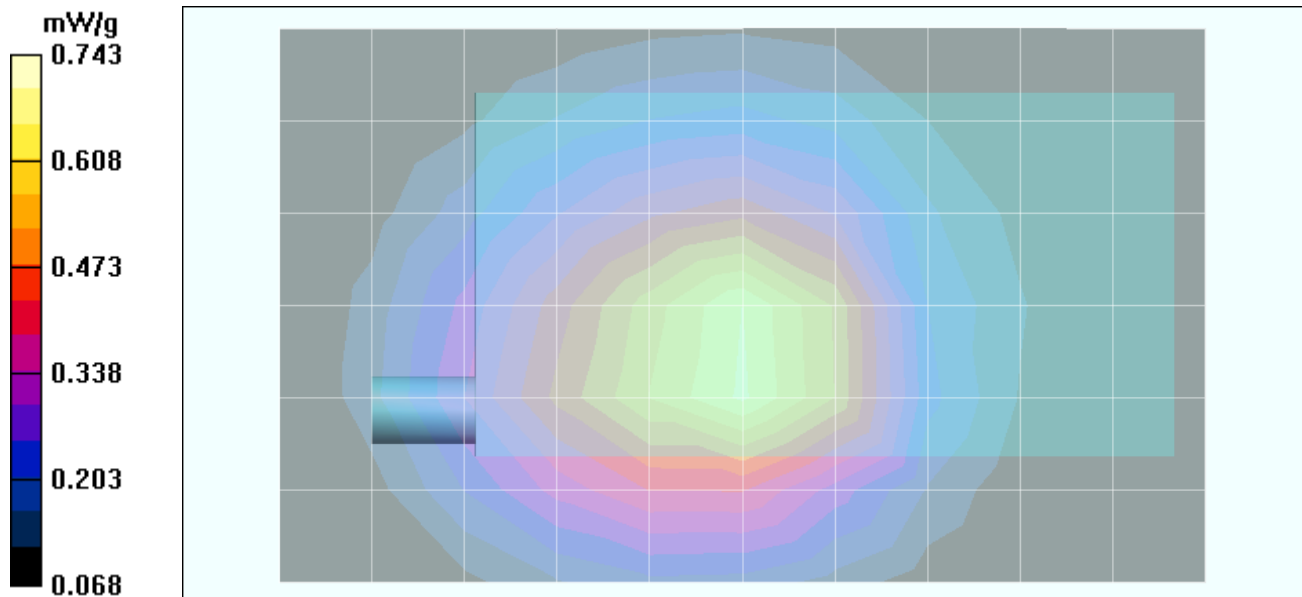
Body-Worn - Cellular CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 1013

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m; Power Drift = -0.0697 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.675 mW/g; SAR(10 g) = 0.452 mW/g



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - High Channel - With Leather Side Case (Front of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Leather Side Case with Belt-Clip (SKU#3180WW), Generic Ear-Microphone

Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 848.31 MHz; Duty Cycle: 1:1
RF Output Power: 24.41 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - Cellular CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 777
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

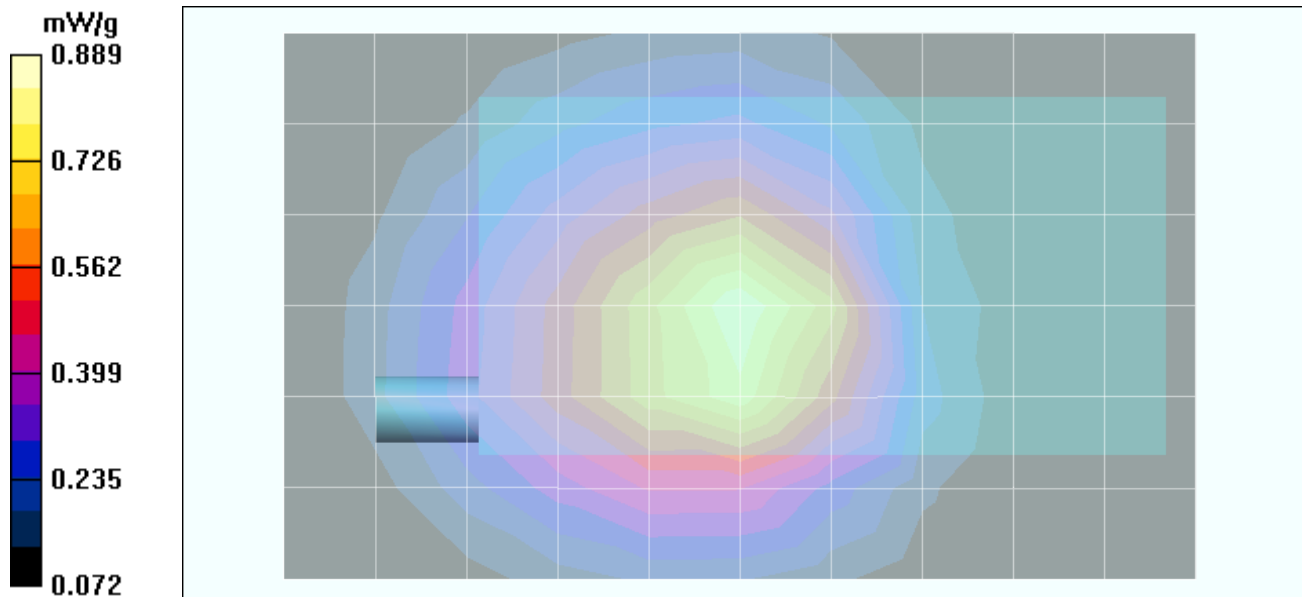
Body-Worn - Cellular CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 777

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.8 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.536 mW/g



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - Mid Channel - 1.5 cm Air-Gap Spacing - Front of DUT

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Generic Ear-Microphone

Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 836.52 MHz; Duty Cycle: 1:1
RF Output Power: 24.46 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - Cellular CDMA - Front of DUT - 1.5 cm Air-Gap Separation Distance - Channel 384
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

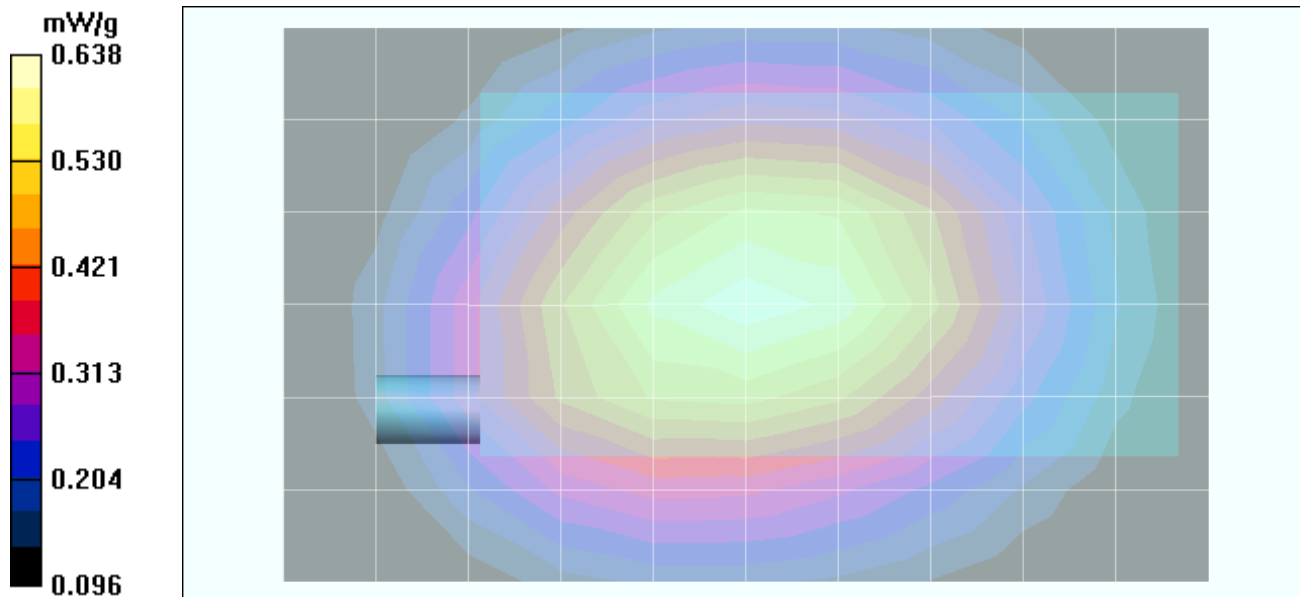
Body-Worn - Cellular CDMA - Front of DUT - 1.5 cm Air-Gap Separation Distance - Channel 384

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26 V/m; Power Drift = -0.0832 dB

Peak SAR (extrapolated) = 0.767 W/kg

SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.447 mW/g



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - Mid Channel - 1.5 cm Air-Gap Spacing - Back of DUT

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Generic Ear-Microphone

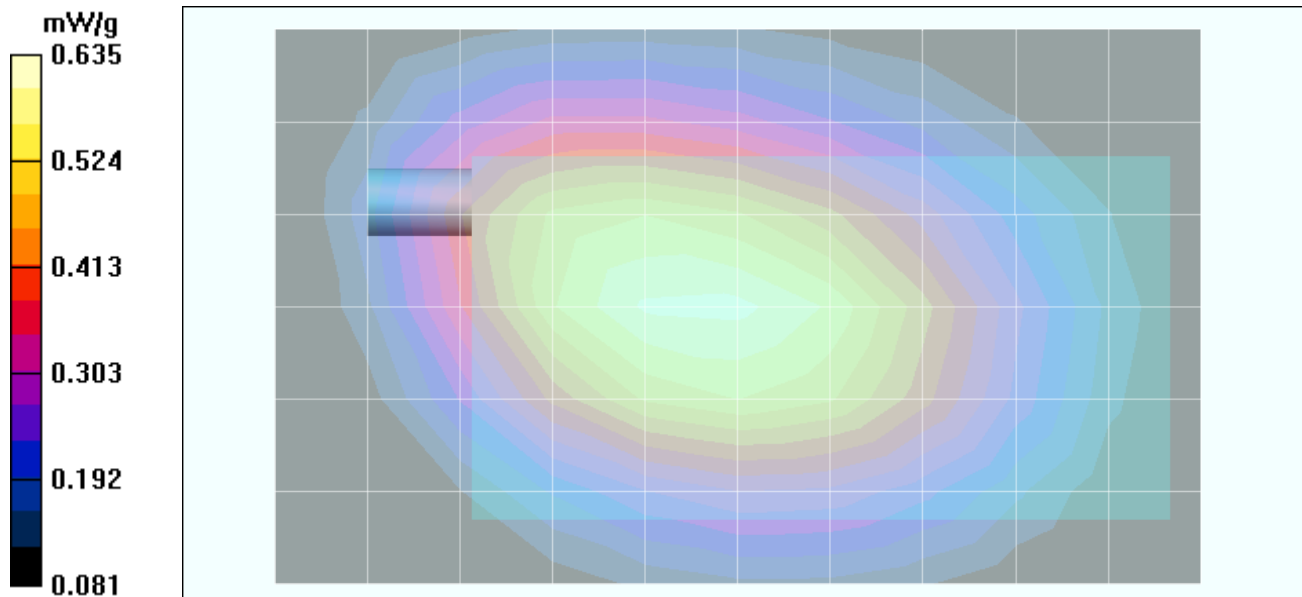
Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 836.52 MHz; Duty Cycle: 1:1
RF Output Power: 24.46 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - Cellular CDMA - Back of DUT - 1.5 cm Air-Gap Separation Distance - Channel 384
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Body-Worn - Cellular CDMA - Back of DUT - 1.5 cm Air-Gap Separation Distance - Channel 384
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.8 V/m; Power Drift = 0.0503 dB
Peak SAR (extrapolated) = 0.776 W/kg
SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.442 mW/g



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - Mid Channel - Fitted Leather Pouch (Back of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Fitted Leather Pouch and Swivel Belt-Clip (SKU#3179WW), Generic Ear-Microphone

Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 836.52 MHz; Duty Cycle: 1:1
RF Output Power: 24.46 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - Cellular CDMA - Fitted Leather Pouch Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 384 Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

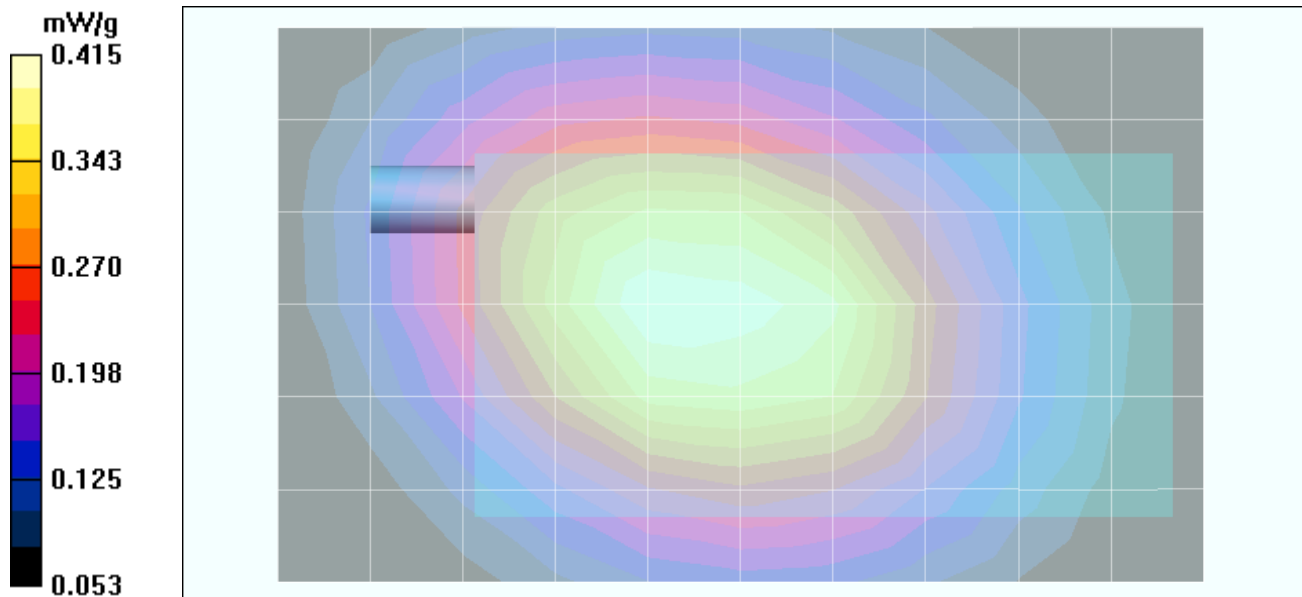
Body-Worn - Cellular CDMA - Fitted Leather Pouch Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 384

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = -0.00600 dB

Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.291 mW/g



Date Tested: 07/31/04

Body-Worn SAR - Cellular CDMA Mode - Mid Channel - With Aluminum Case (Back of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Aluminum Case and Swivel Belt-Clip (SKU#3202WW), Generic Ear-Microphone

Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.7 kPa; Humidity: 40%

Communication System: Cellular CDMA
Frequency: 836.52 MHz; Duty Cycle: 1:1
RF Output Power: 24.46 dBm (Conducted)
3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)
Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - Cellular CDMA - Aluminum Case Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 384 Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

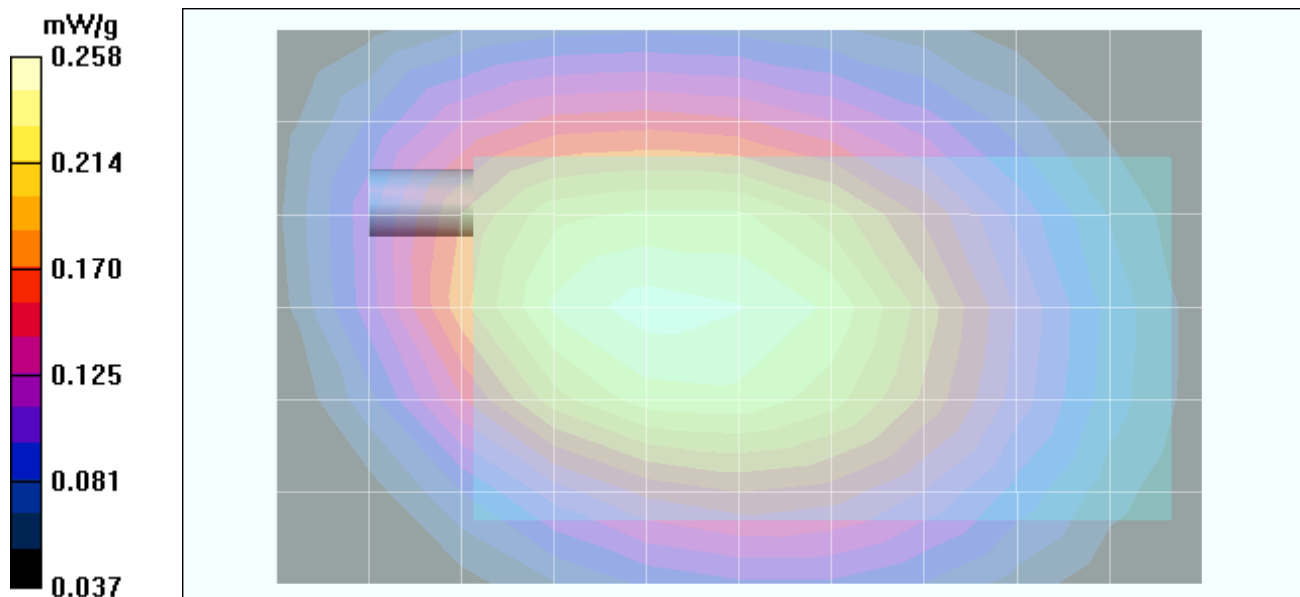
Body-Worn - Cellular CDMA - Aluminum Case Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 384

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.0206 dB

Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.182 mW/g



Date Tested: 08/18/04

Body-Worn SAR - Cellular CDMA Mode - Mid Channel - With Leather Side Case (Front of DUT) Simultaneous Transmit with Co-located Bluetooth Transmitter (Broadcom BCM-2035)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Leather Side Case with Belt-Clip (SKU#3180WW), Generic Ear-Microphone

Ambient Temp: 23.9 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 102.7 kPa; Humidity: 53%

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Communication System: Cellular CDMA

Frequency: 836.52 MHz; Duty Cycle: 1:1

RF Output Power: 24.44 dBm (Conducted)

Frequency: 2441 MHz; Duty Cycle: 1:1 (Bluetooth)

RF Output Power: -5.1 dBm (Peak Conducted) Bluetooth

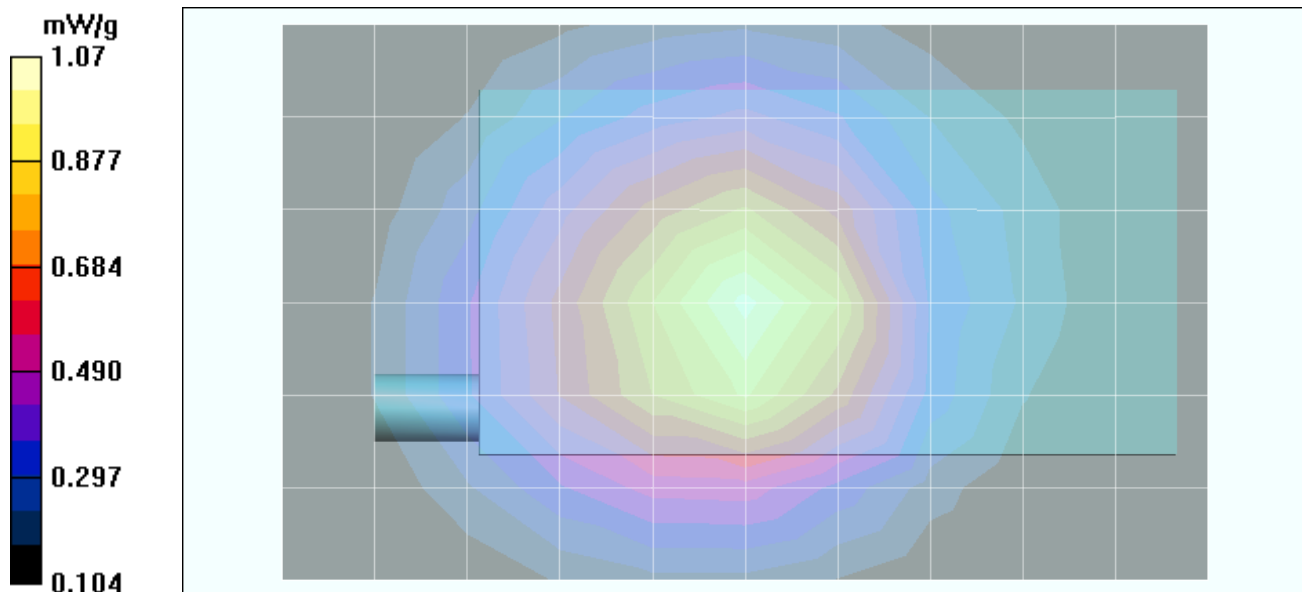
Communication System: Modulated Fixed Frequency (Bluetooth)

Medium: M835 ($\sigma = 1.00$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³)

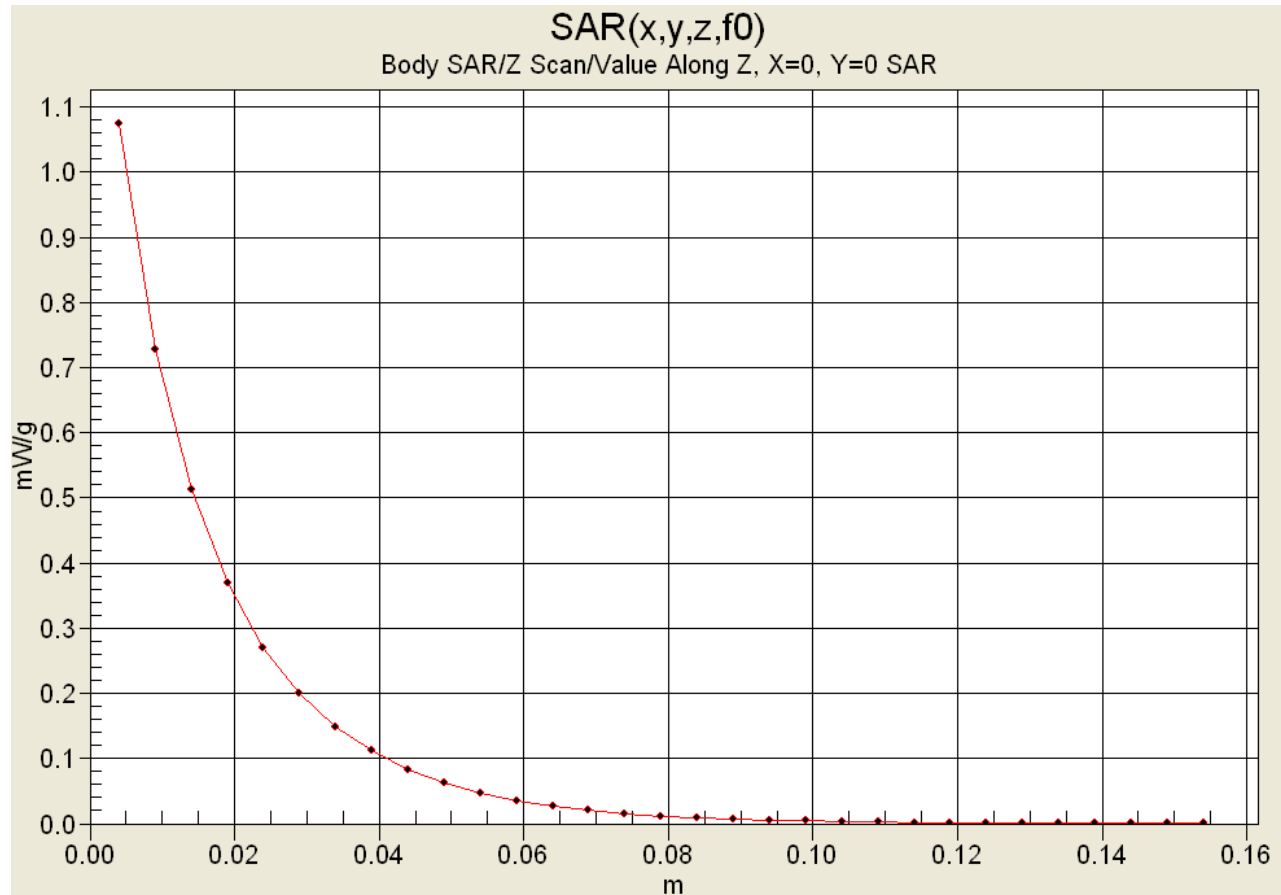
- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Body-Worn - Cellular CDMA & Bluetooth - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 384
Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Body-Worn - Cellular CDMA & Bluetooth - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 384
Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.3 V/m; Power Drift = 0.00661 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.676 mW/g



Z-Axis Scan



Date Tested: 07/30/04

Body-Worn SAR - PCS CDMA Mode - Mid Channel - With Leather Side Case (Front of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 25.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 40%

Body-Worn Accessories: Leather Side Case with Belt-Clip (SKU#3180WW), Generic Ear-Microphone

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: M1880 ($\sigma = 1.54$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - PCS CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 600 Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

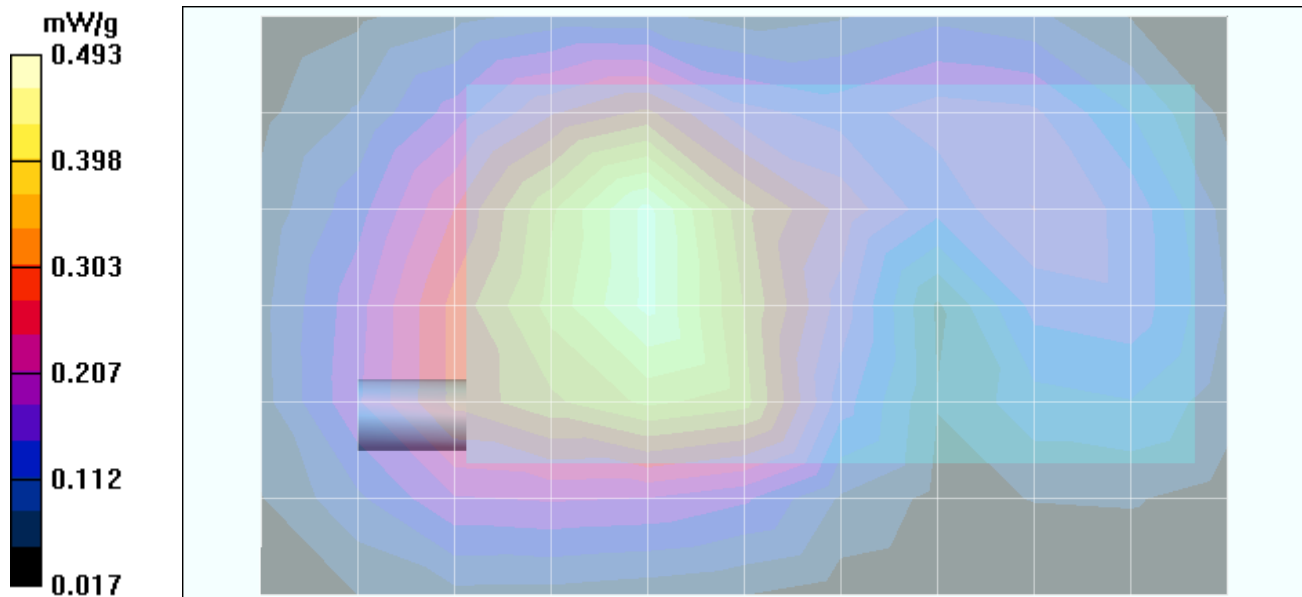
Body-Worn - PCS CDMA - Leather Side Case Accessory - 1.4 cm Belt-Clip Separation Distance - Channel 600

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.1 V/m; Power Drift = -0.0932 dB

Peak SAR (extrapolated) = 0.670 W/kg

SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.298 mW/g



Date Tested: 07/30/04

Body-Worn SAR - PCS CDMA Mode - Mid Channel - With Fitted Leather Pouch (Back of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Ambient Temp: 25.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 40%

Body-Worn Accessories: Fitted Leather Pouch and Swivel Belt-Clip (SKU#3179WW), Generic Ear-Microphone

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: M1880 ($\sigma = 1.54$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

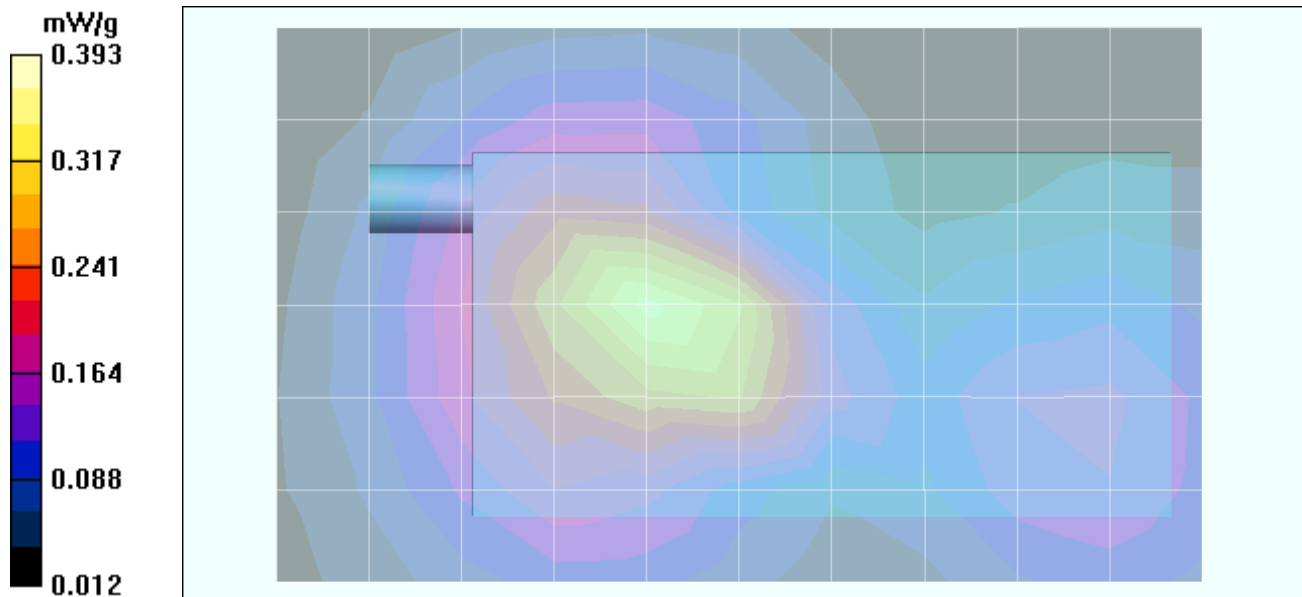
Body-Worn - PCS CDMA - Fitted Leather Pouch Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 600 Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Body-Worn - PCS CDMA - Fitted Leather Pouch Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 600 Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.2 V/m; Power Drift = -0.0340 dB

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.211 mW/g



Date Tested: 07/30/04

Body-Worn SAR - PCS CDMA Mode - Mid Channel - With Aluminum Case (Back of DUT)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Aluminum Case and Swivel Belt-Clip (SKU#3202WW), Generic Ear-Microphone

Ambient Temp: 25.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 40%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: M1880 ($\sigma = 1.54$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - PCS CDMA - Aluminum Case Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 600

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

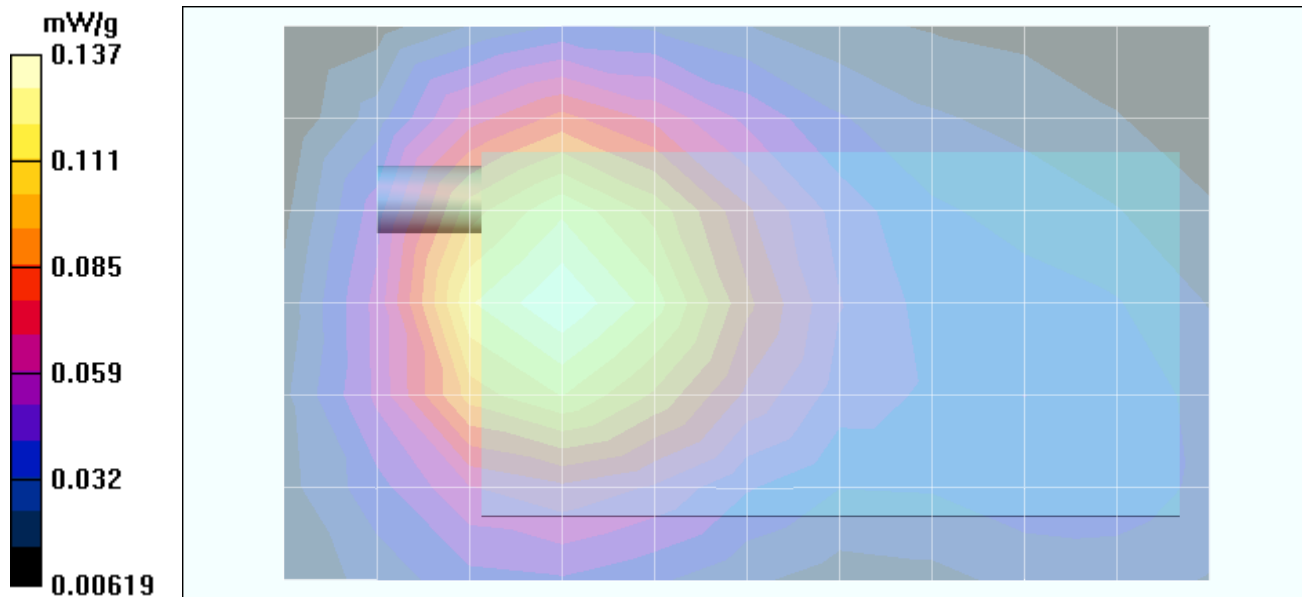
Body-Worn - PCS CDMA - Aluminum Case Accessory - 2.5 cm Belt-Clip Separation Distance - Channel 600

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.43 V/m; Power Drift = -0.0743 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.082 mW/g



Date Tested: 07/30/04

Body-Worn SAR - PCS CDMA Mode - Mid Channel - 1.5 cm Air-Gap Spacing - Front of DUT

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Generic Ear-Microphone

Ambient Temp: 25.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 40%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: M1880 ($\sigma = 1.54$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - PCS CDMA - Front of DUT - 1.5 cm Air-Gap Separation Distance - Channel 600

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

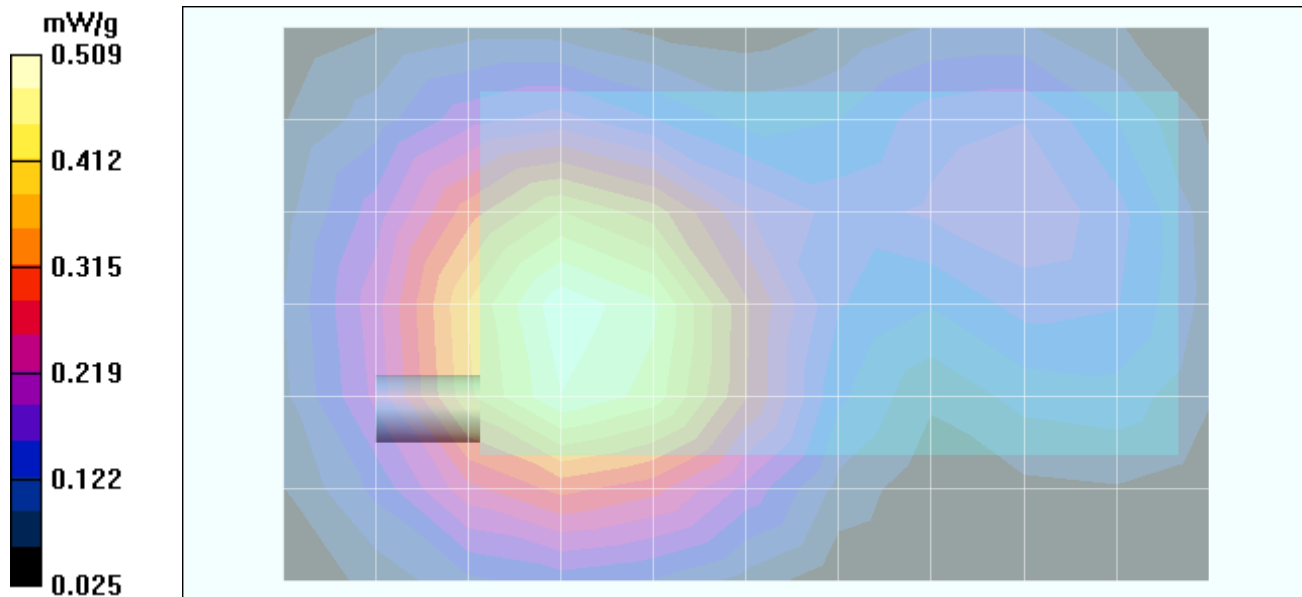
Body-Worn - PCS CDMA - Front of DUT - 1.5 cm Air-Gap Separation Distance - Channel 600

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = -0.0417 dB

Peak SAR (extrapolated) = 0.683 W/kg

SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.314 mW/g



Date Tested: 07/30/04

Body-Worn SAR - PCS CDMA Mode - Mid Channel - 1.5 cm Air-Gap Spacing - Back of DUT

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Generic Ear-Microphone

Ambient Temp: 25.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 40%

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.24 dBm (Conducted)

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Medium: M1880 ($\sigma = 1.54$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body-Worn - PCS CDMA - Back of DUT - 1.5 cm Air-Gap Separation Distance - Channel 600

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

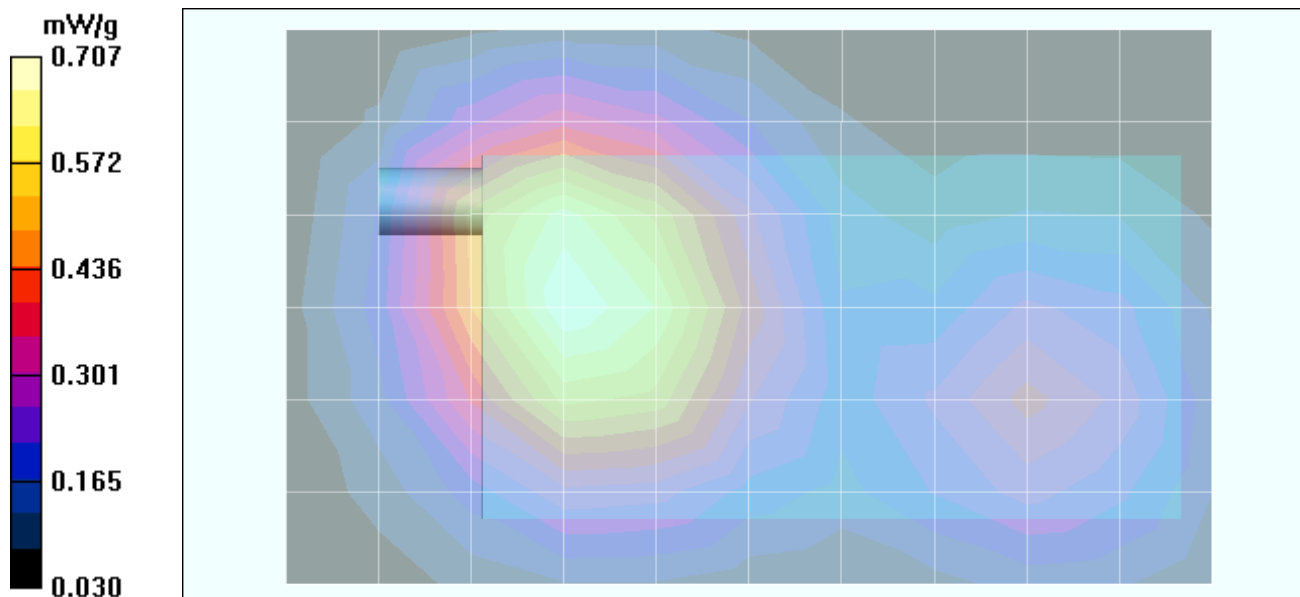
Body-Worn - PCS CDMA - Back of DUT - 1.5 cm Air-Gap Separation Distance - Channel 600

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

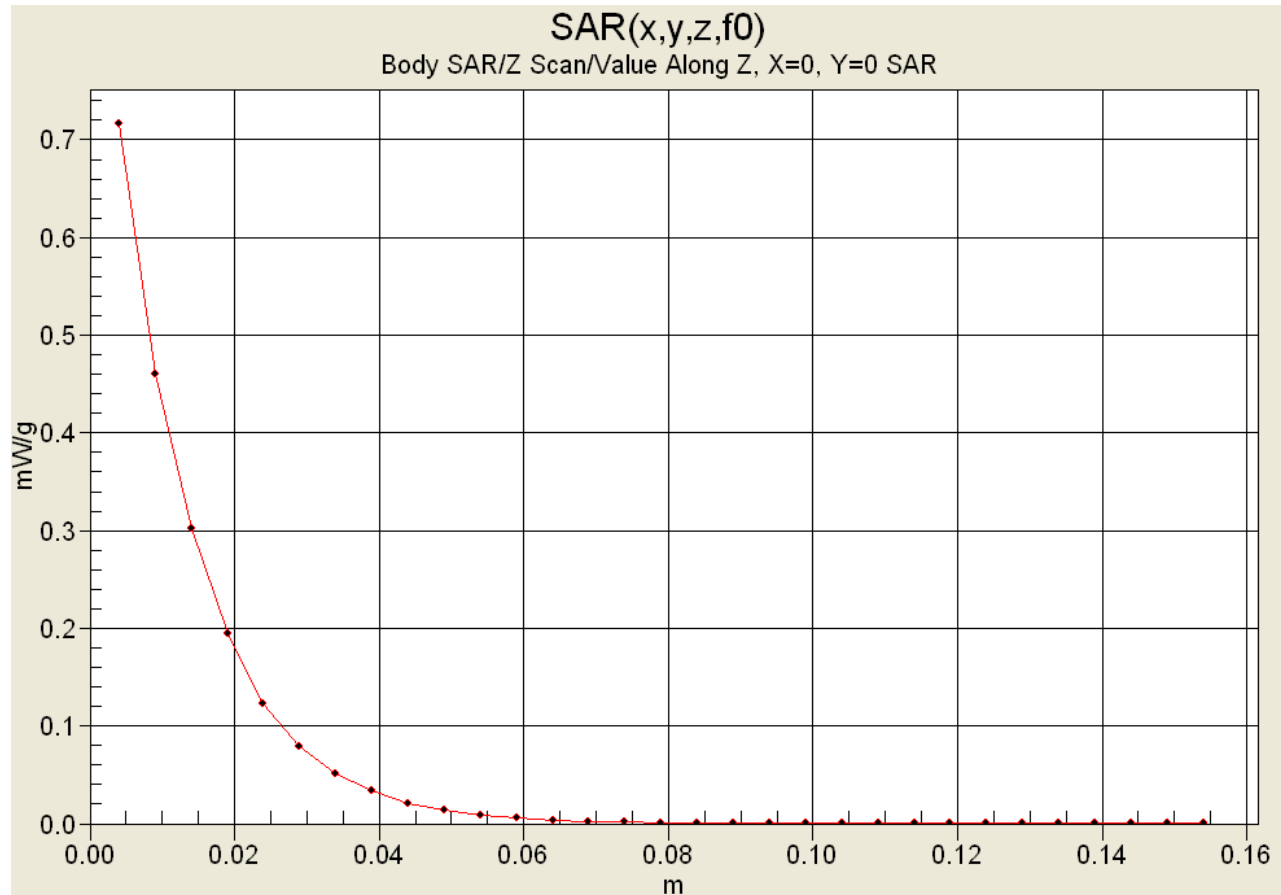
Reference Value = 18.3 V/m; Power Drift = -0.0500 dB

Peak SAR (extrapolated) = 0.993 W/kg

SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.426 mW/g



Z-Axis Scan



Date Tested: 08/18/04

Body-Worn SAR - PCS CDMA Mode - Mid Channel - 1.5 cm Air-Gap Spacing - Back of DUT Simultaneous Transmit with Co-located Bluetooth Transmitter (Broadcom BCM-2035)

DUT: palmOne Model: Treo 650; Type: Portable Dual-Band PCS/Cellular CDMA2000 Phone; Serial: HT427D900027

Body-Worn Accessories: Generic Ear-Microphone

Ambient Temp: 24.3 °C; Fluid Temp: 23.7 °C; Barometric Pressure: 102.2 kPa; Humidity: 42%

3.7V 1900mAh Li-ion Battery Pack (P/N: 167-10165-00)

Communication System: PCS CDMA

Frequency: 1880.00 MHz; Duty Cycle: 1:1

RF Output Power: 24.27 dBm (Conducted)

Frequency: 2441 MHz; Duty Cycle: 1:1 (Bluetooth)

RF Output Power: -5.1 dBm (Peak Conducted) Bluetooth

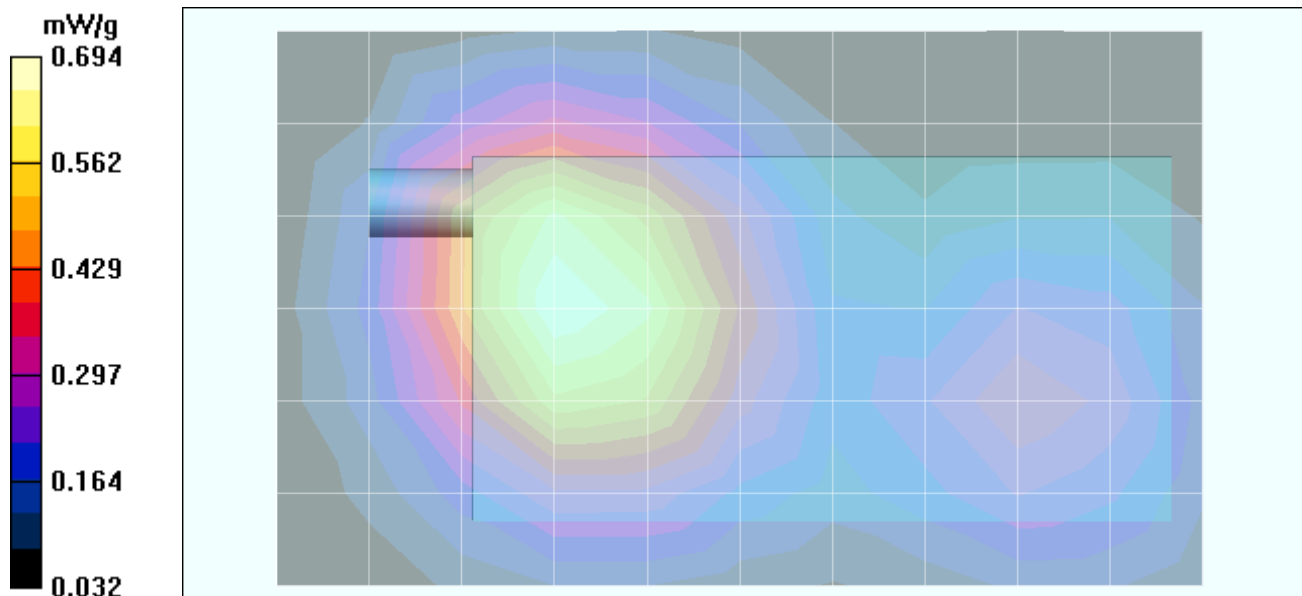
Communication System: Modulated Fixed Frequency (Bluetooth)

Medium: M1880 ($\sigma = 1.51$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**Body-Worn - PCS CDMA & Bluetooth - Back of DUT - 1.5 cm Air-Gap Separation Distance - Channel 600
Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Body-Worn - PCS CDMA & Bluetooth - Back of DUT - 1.5 cm Air-Gap Separation Distance - Channel 600
Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = -0.0245 dB
Peak SAR (extrapolated) = 0.982 W/kg
SAR(1 g) = 0.652 mW/g; SAR(10 g) = 0.424 mW/g



Z-Axis Scan

