

## **APPENDIX A: SAR TEST DATA**

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Right Head, Slide In, Touch, High.ch**

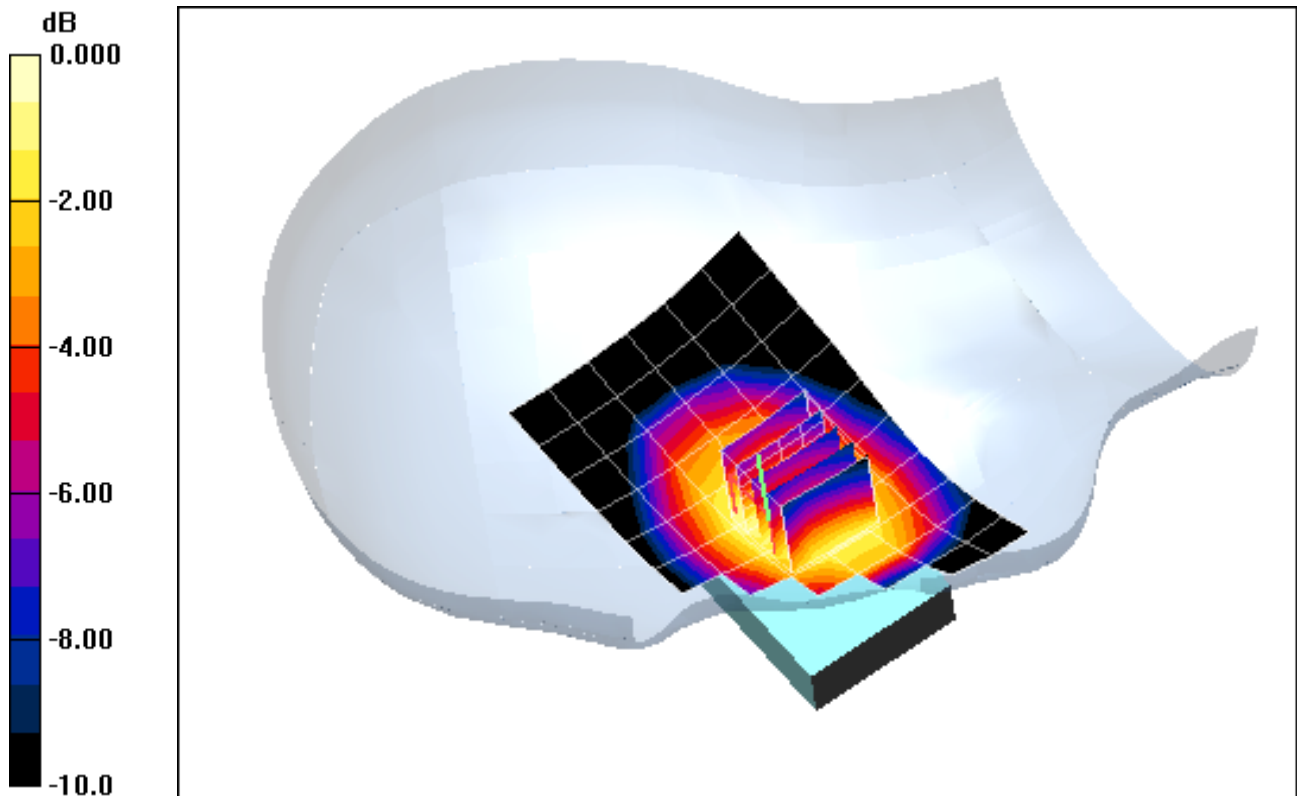
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.2 V/m

Peak SAR (extrapolated) = 0.604 W/kg

**SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.354 mW/g**



0 dB = 0.502mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Right Head, Slide In, Touch, High.ch**

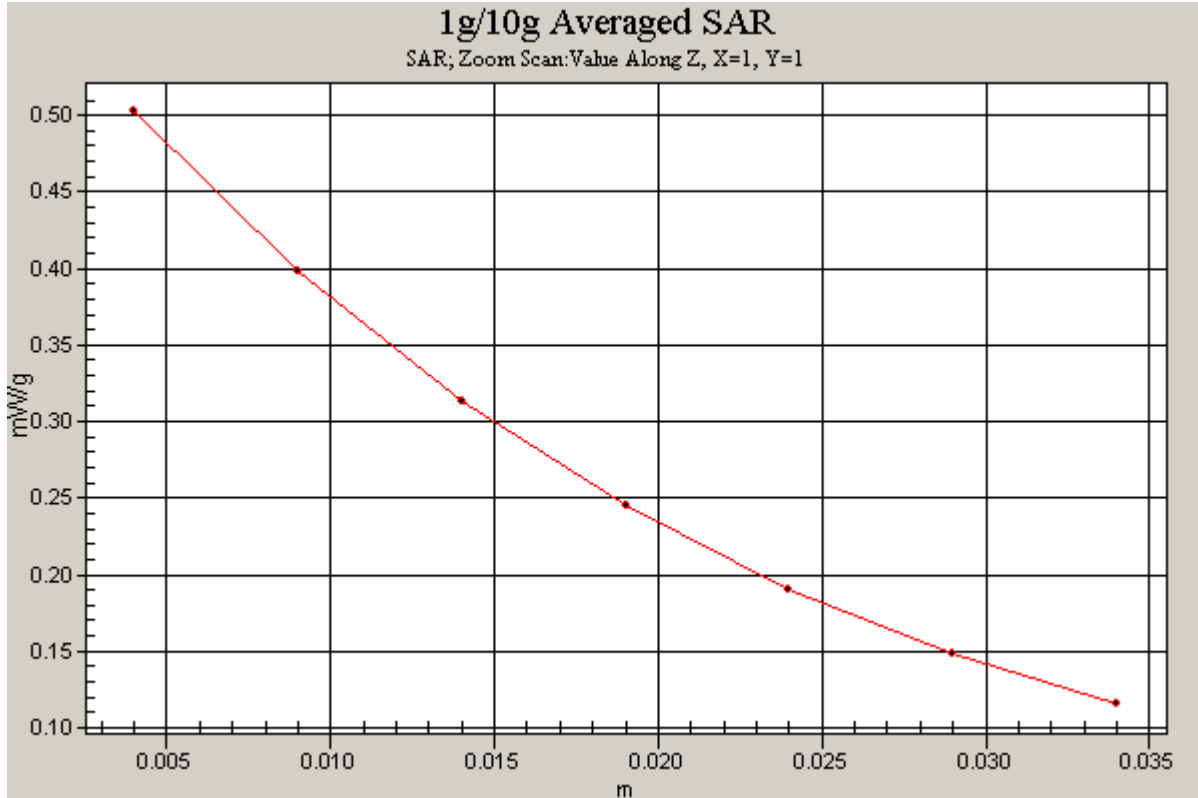
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.2 V/m

Peak SAR (extrapolated) = 0.604 W/kg

**SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.354 mW/g**



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**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Right Head, Slide In, Tilt, High.ch**

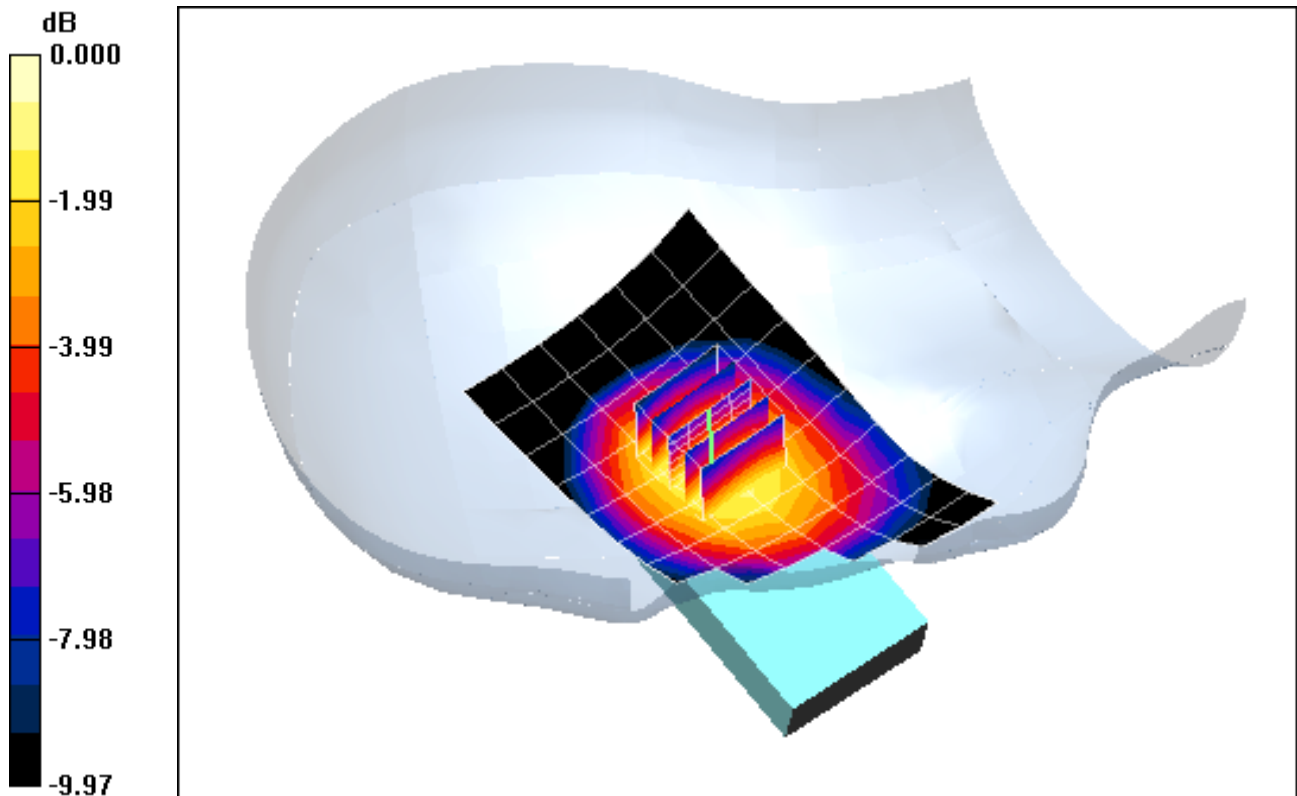
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.9 V/m

Peak SAR (extrapolated) = 0.480 W/kg

**SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.267 mW/g**



0 dB = 0.398mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Left Head, Slide In, Touch, High.ch**

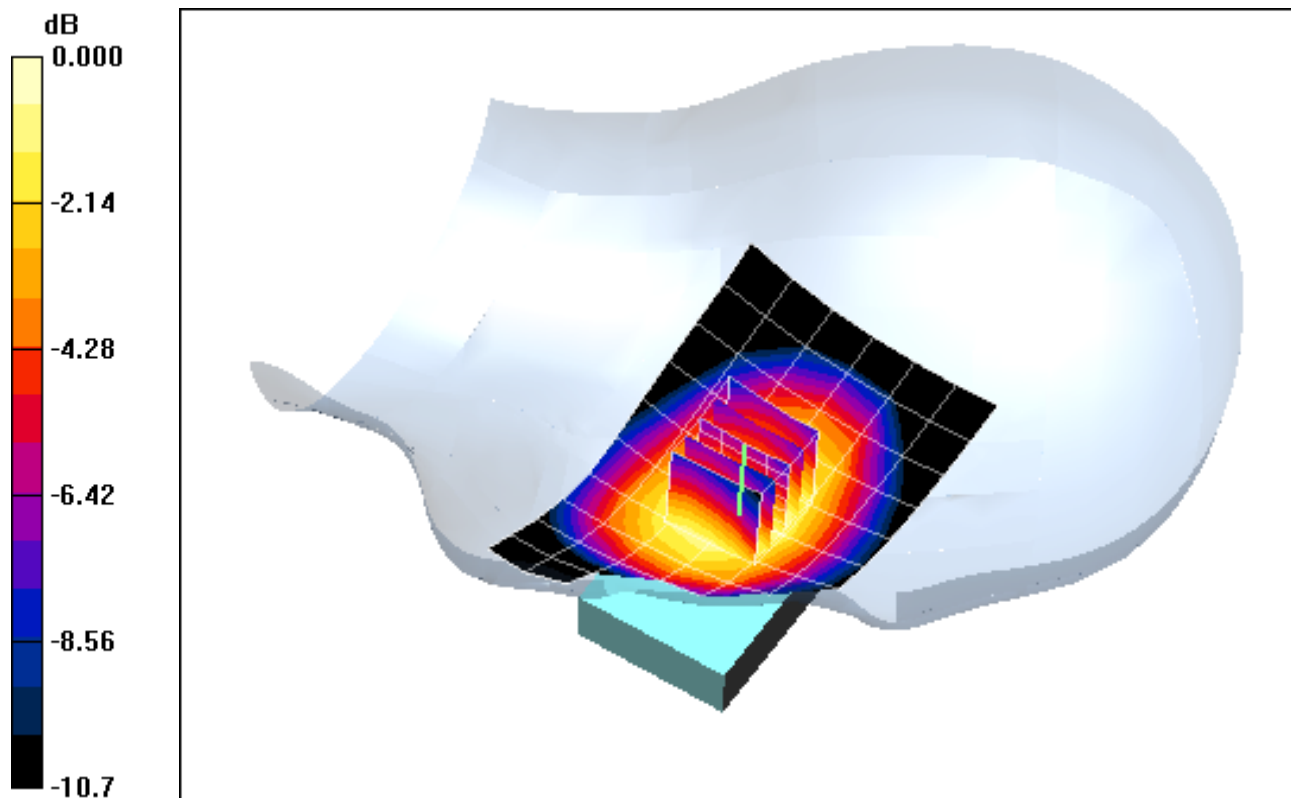
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.4 V/m

Peak SAR (extrapolated) = 0.544 W/kg

**SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.314 mW/g**



0 dB = 0.449mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT:CDMA SO006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Left Head, Slide In, Tilt, High.ch**

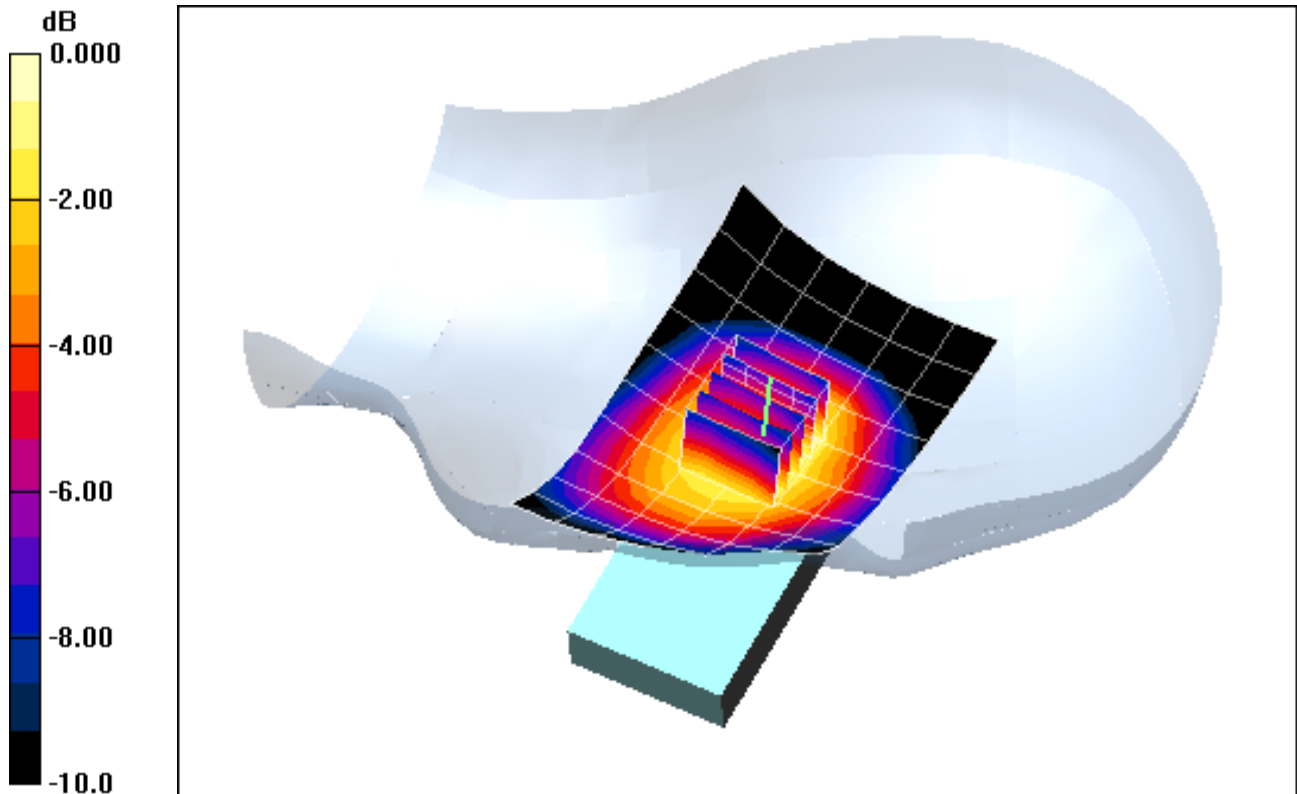
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.9 V/m

Peak SAR (extrapolated) = 0.395 W/kg

**SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.218 mW/g**



0 dB = 0.322mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Right Head, Slide Out, Touch, High.ch**

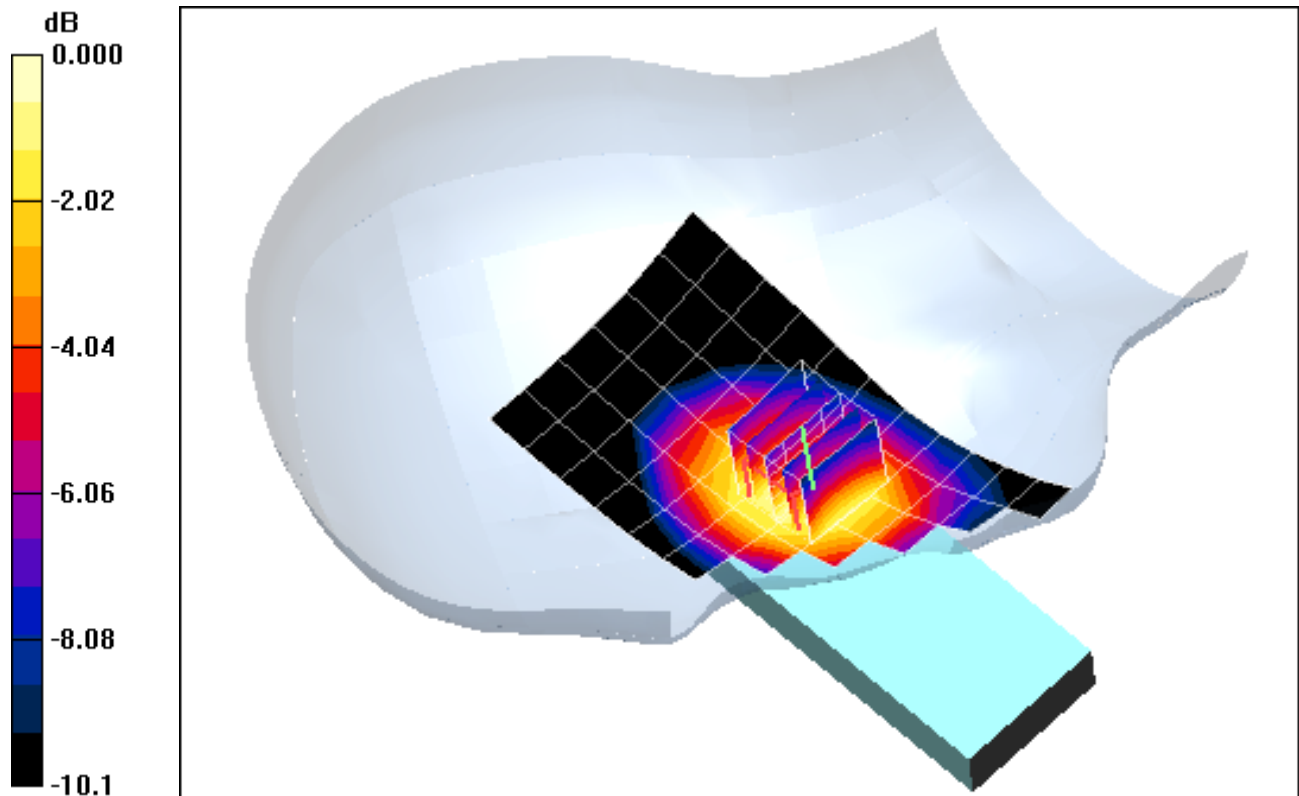
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.0 V/m

Peak SAR (extrapolated) = 0.592 W/kg

**SAR(1 g) = 0.464 mW/g; SAR(10 g) = 0.339 mW/g**



0 dB = 0.485mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Right Head, Slide Out, Tilt, High.ch**

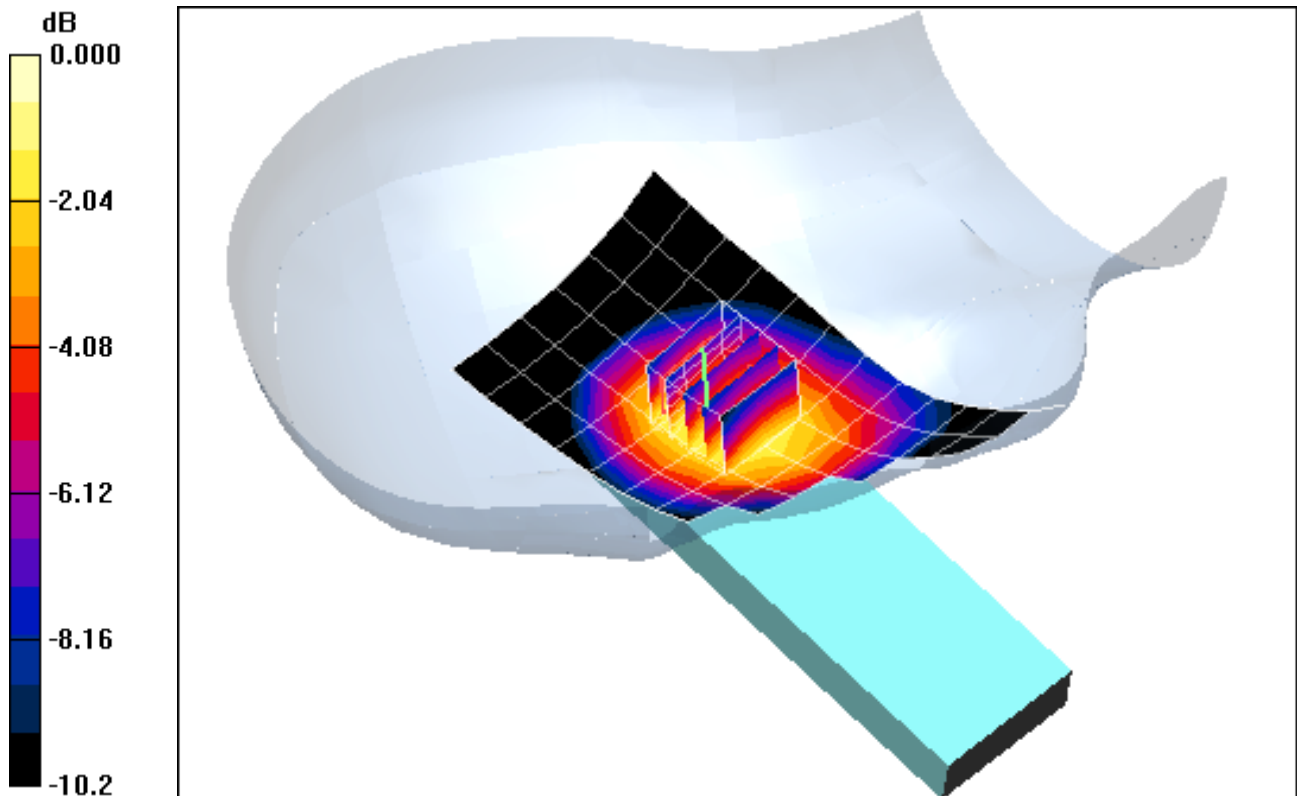
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.8 V/m

Peak SAR (extrapolated) = 0.354 W/kg

**SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.187 mW/g**



0 dB = 0.283mW/g



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used (interpolated):

$f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Left Head, Slide Out, Touch, High.ch**

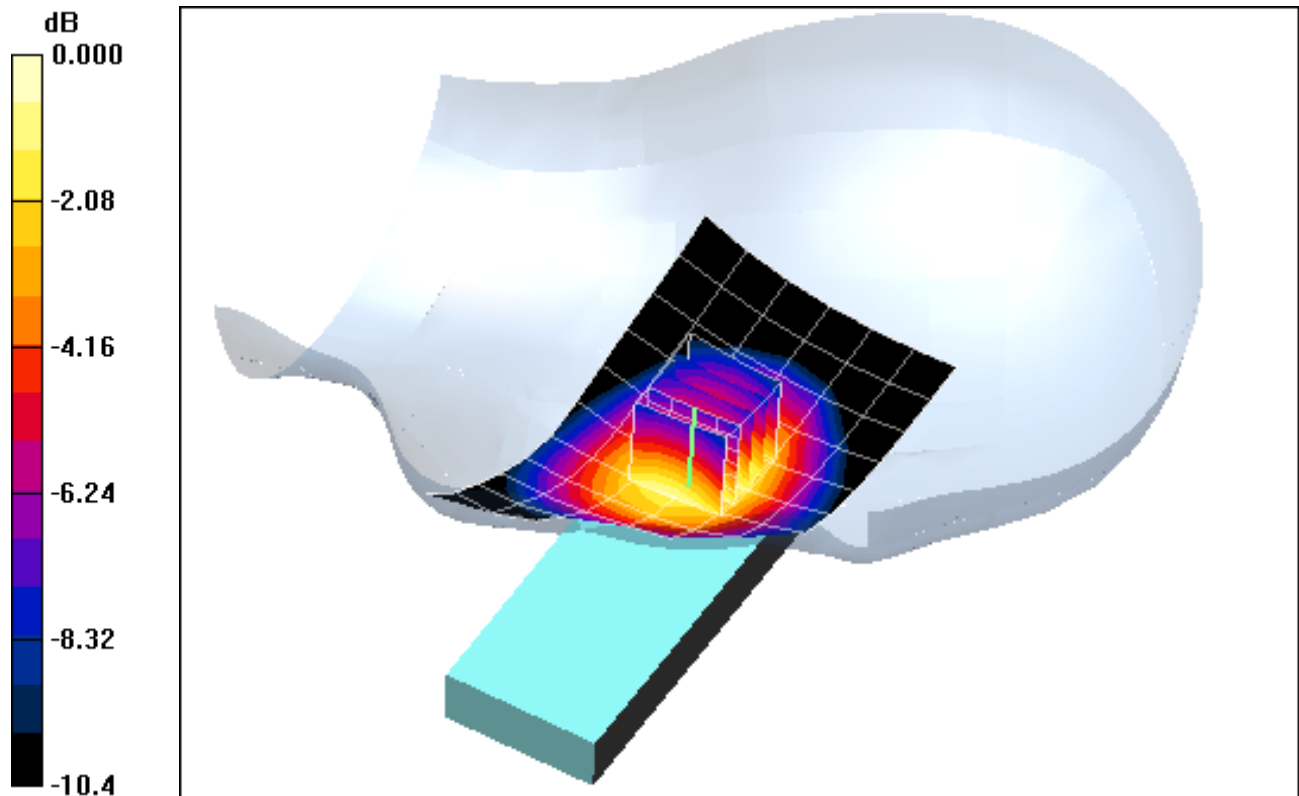
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.2 V/m

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.317 mW/g**



0 dB = 0.455mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

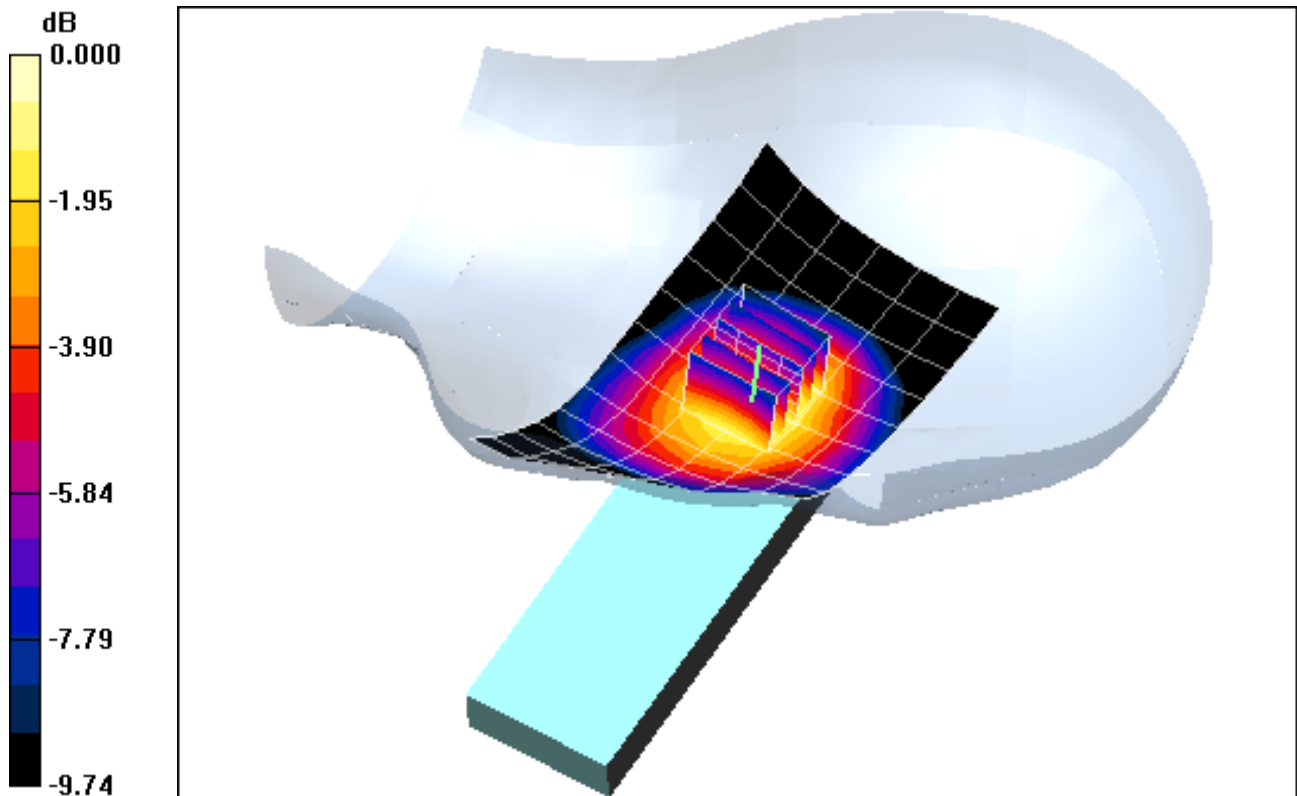
Communication System: Cellular CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: 835 Brain Medium parameters used (interpolated):  
 $f = 848.31 \text{ MHz}$ ;  $\sigma = 0.921 \text{ mho/m}$ ;  $\epsilon_r = 42.56$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.8 ° C; Tissue Temp: 22.3 ° C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn649; Calibrated: 1/22/2010  
Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114  
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Left Head, Slide Out, Tilt, High.ch**

**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm  
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.7 V/m  
Peak SAR (extrapolated) = 0.288 W/kg  
**SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.155 mW/g**



0 dB = 0.227mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used (interpolated):

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.468 \text{ mho/m}$ ;  $\epsilon_r = 40.35$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Right Head, Slide In, Touch, High.ch**

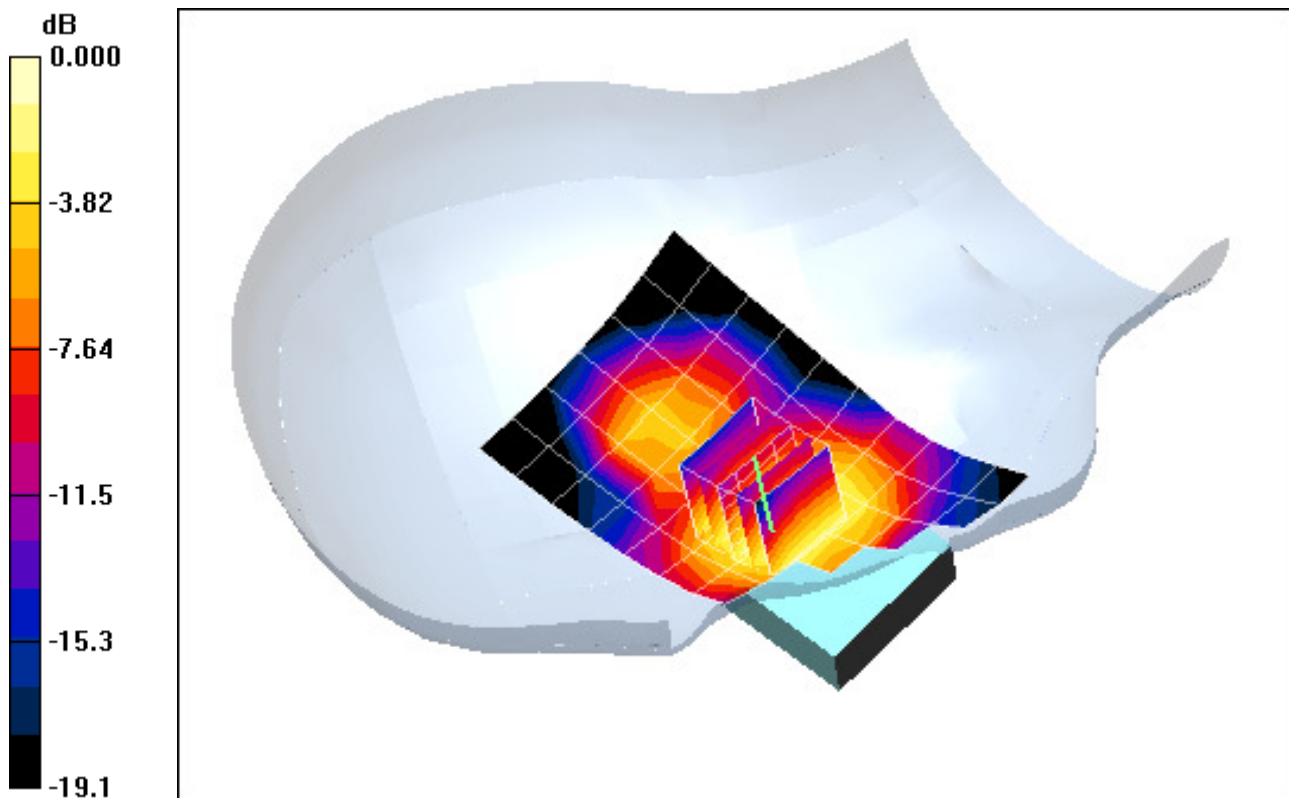
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.3 V/m

Peak SAR (extrapolated) = 0.352 W/kg

**SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.156 mW/g**



0 dB = 0.258mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used (interpolated):

$f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 40.59$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Right Head, Slide In, Tilt, Low.ch**

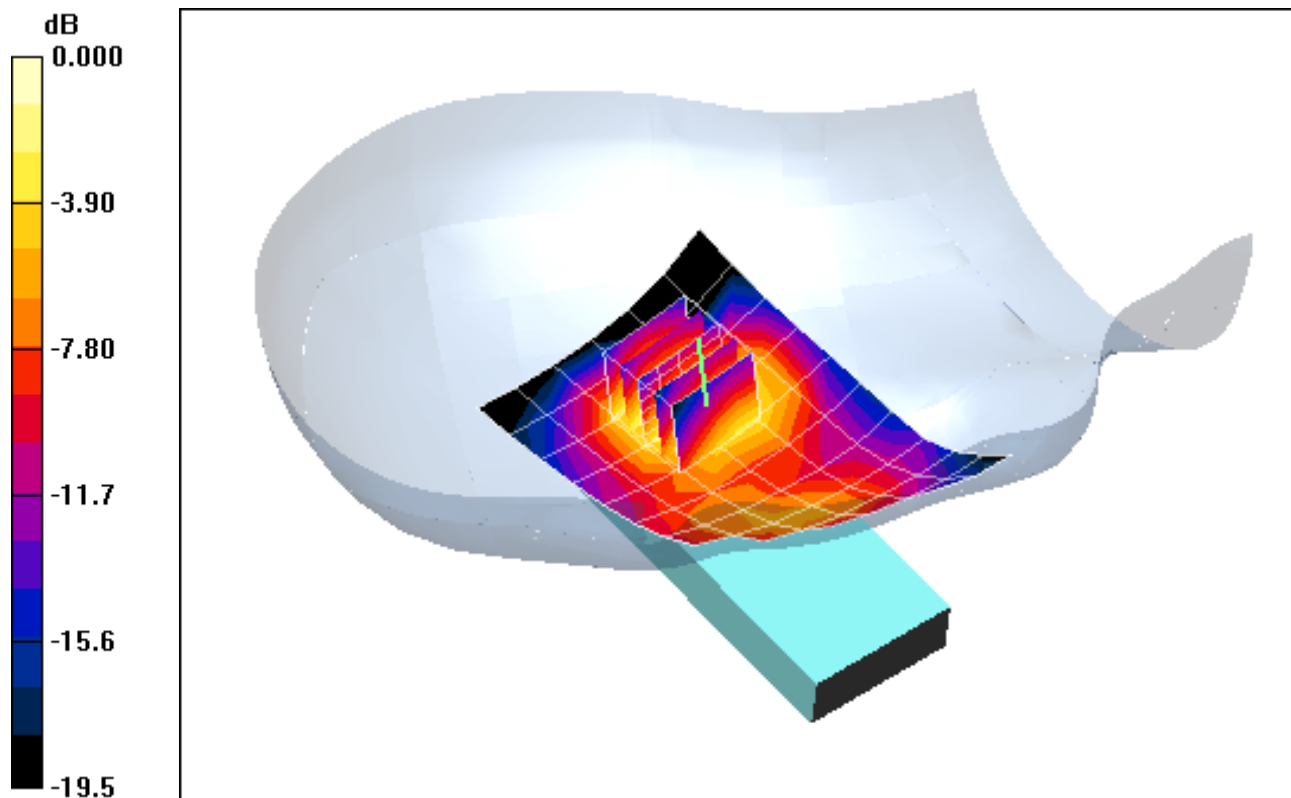
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m

Peak SAR (extrapolated) = 0.281 W/kg

**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.115 mW/g**



0 dB = 0.196mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA SO006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium: 1900 Brain Medium parameters used:

$$f = 1880 \text{ MHz}; \sigma = 1.38 \text{ mho/m}; \epsilon_r = 38.5; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 11-03-2010; Ambient Temp: 23.0 °C; Tissue Temp: 21.1 °C

Probe: EX3DV4 - SN3550; ConvF(6.81, 6.81, 6.81); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Left Head, Slide In, Touch, Mid.ch**

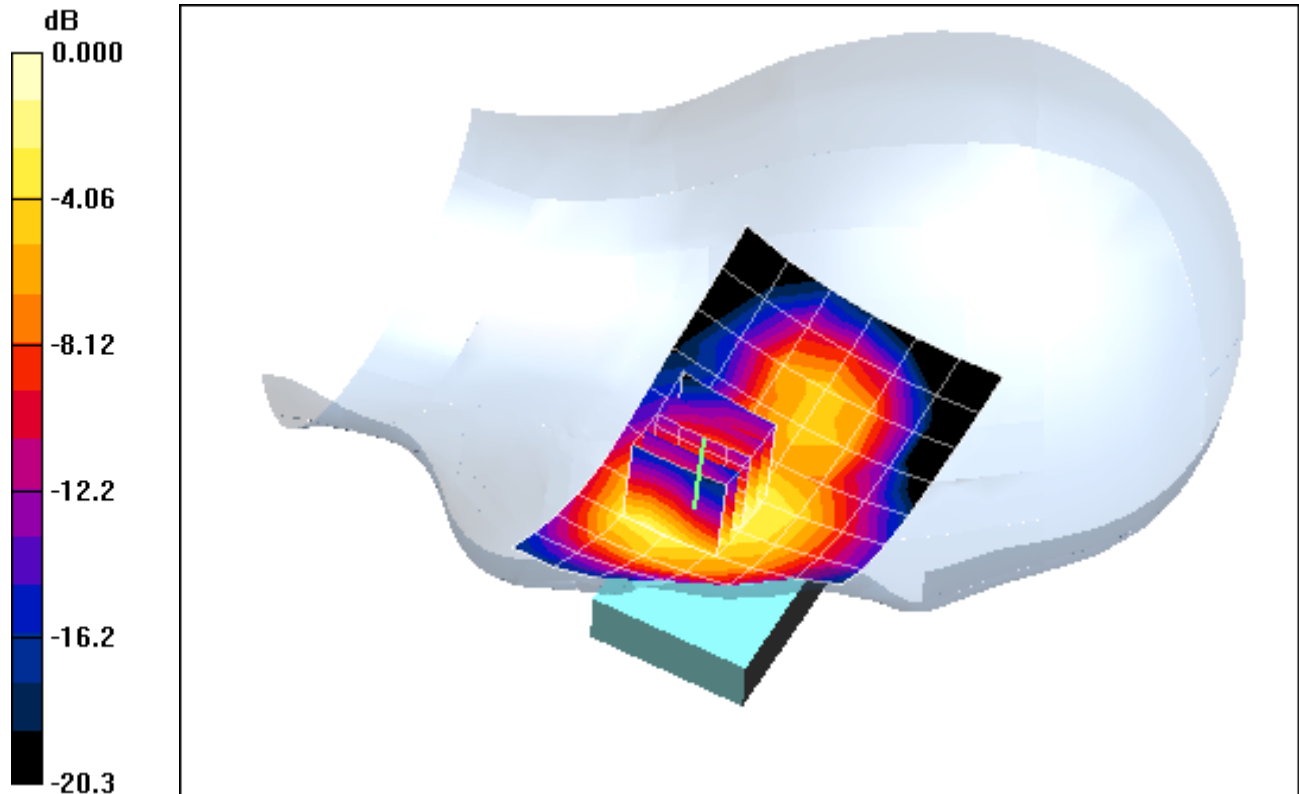
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.6 V/m

Peak SAR (extrapolated) = 0.559 W/kg

**SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.198 mW/g**



0 dB = 0.375mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium: 1900 Brain Medium parameters used:

$$f = 1880 \text{ MHz}; \sigma = 1.38 \text{ mho/m}; \epsilon_r = 38.5; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 11-03-2010; Ambient Temp: 23.0 °C; Tissue Temp: 21.1 °C

Probe: EX3DV4 - SN3550; ConvF(6.81, 6.81, 6.81); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Left Head, Slide In, Touch, Mid.ch**

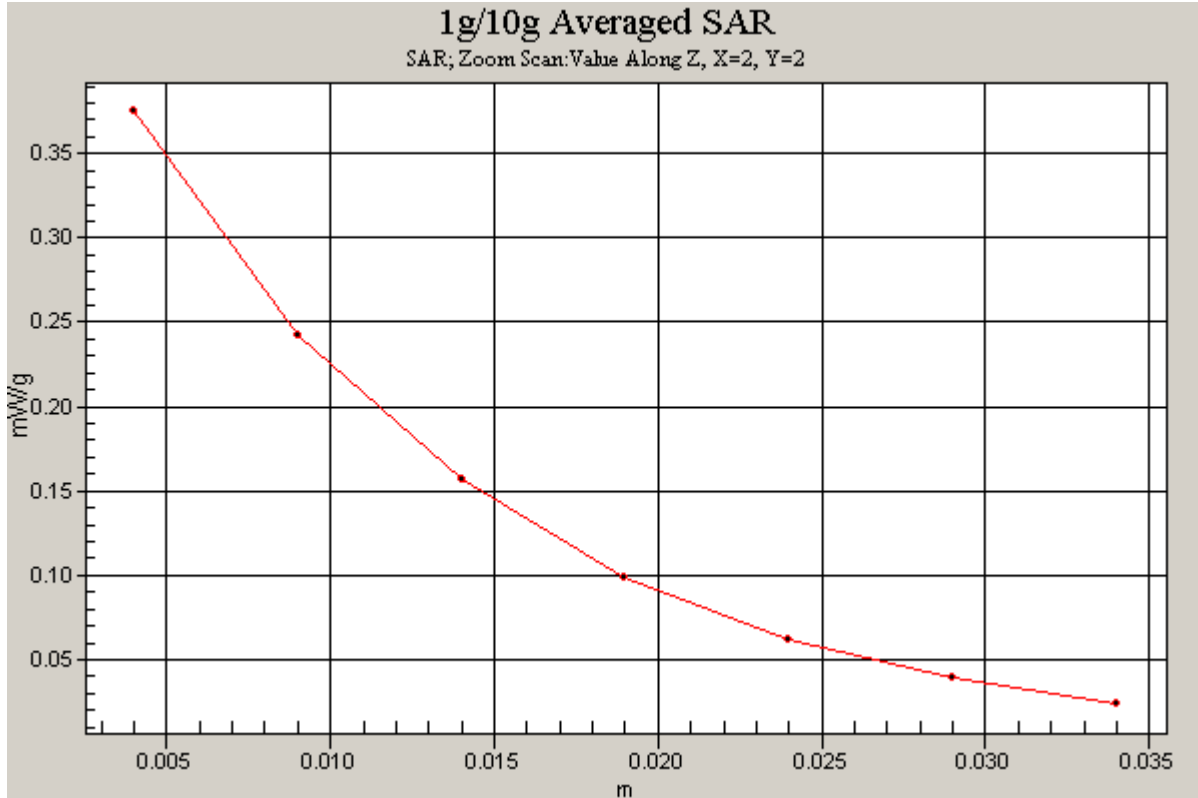
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.6 V/m

Peak SAR (extrapolated) = 0.559 W/kg

**SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.198 mW/g**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used (interpolated):

$f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 40.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Left Head, Slide In, Tilt, Low.ch**

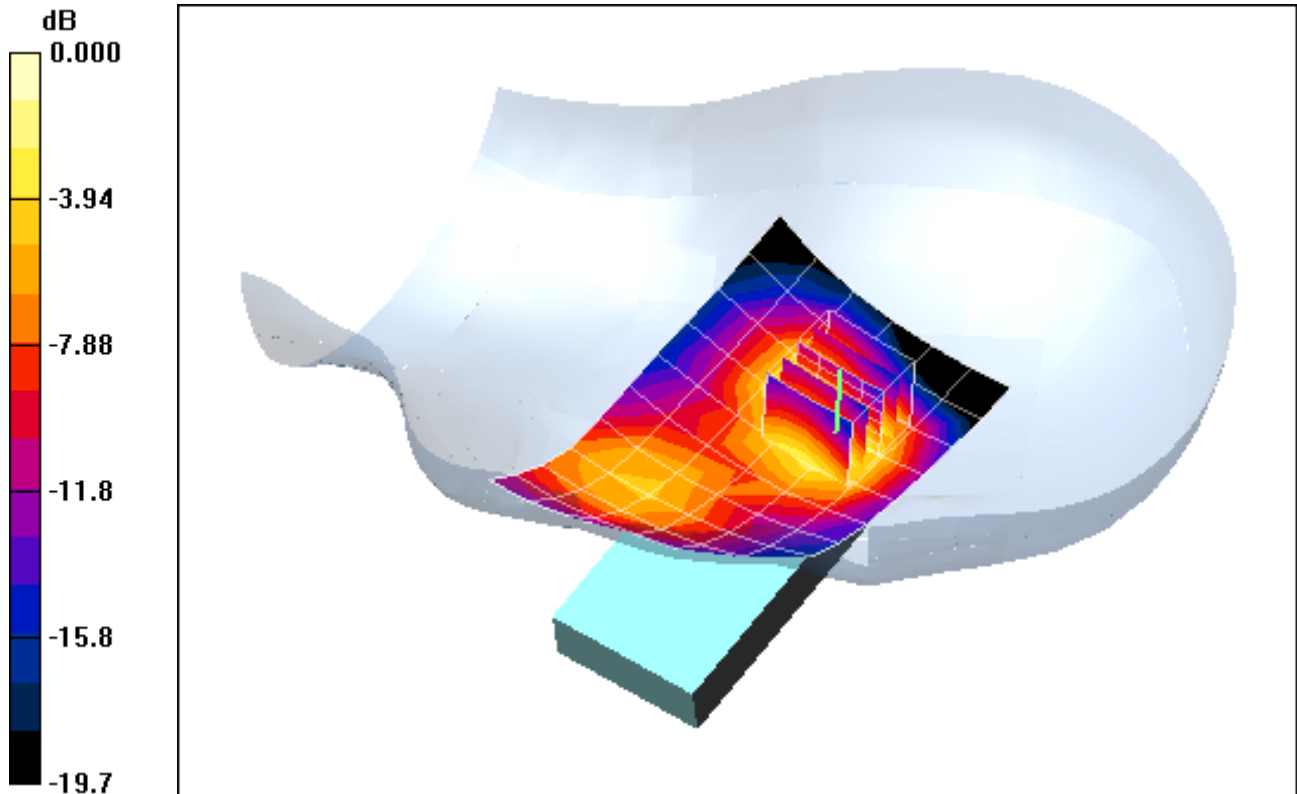
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.4 V/m

Peak SAR (extrapolated) = 0.255 W/kg

**SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.103 mW/g**



0 dB = 0.177mW/g



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used:

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.468 \text{ mho/m}$ ;  $\epsilon_r = 40.35$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Right Head, Slide Out, Touch, High.ch**

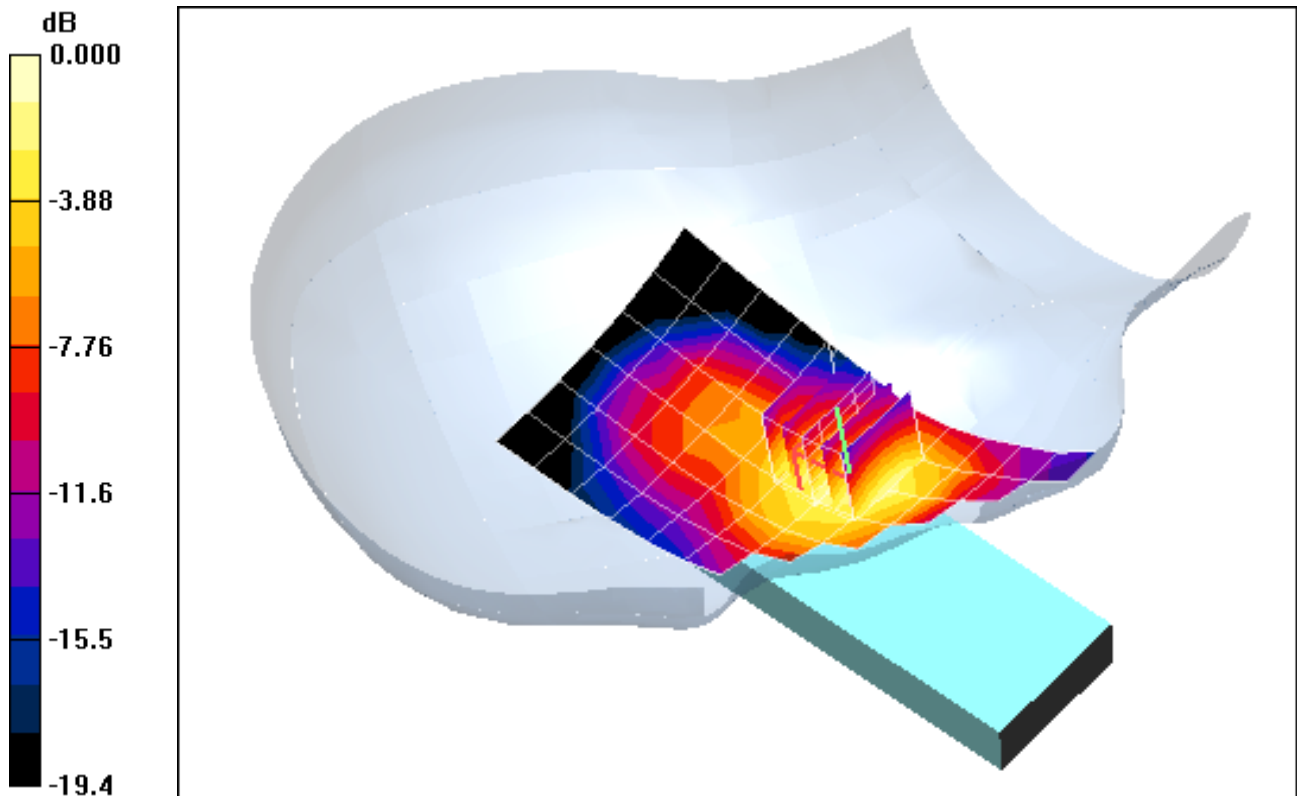
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m

Peak SAR (extrapolated) = 0.330 W/kg

**SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.130 mW/g**



0 dB = 0.228mW/g



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used:

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.468 \text{ mho/m}$ ;  $\epsilon_r = 40.35$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Right Head, Slide Out, Tilt, High.ch**

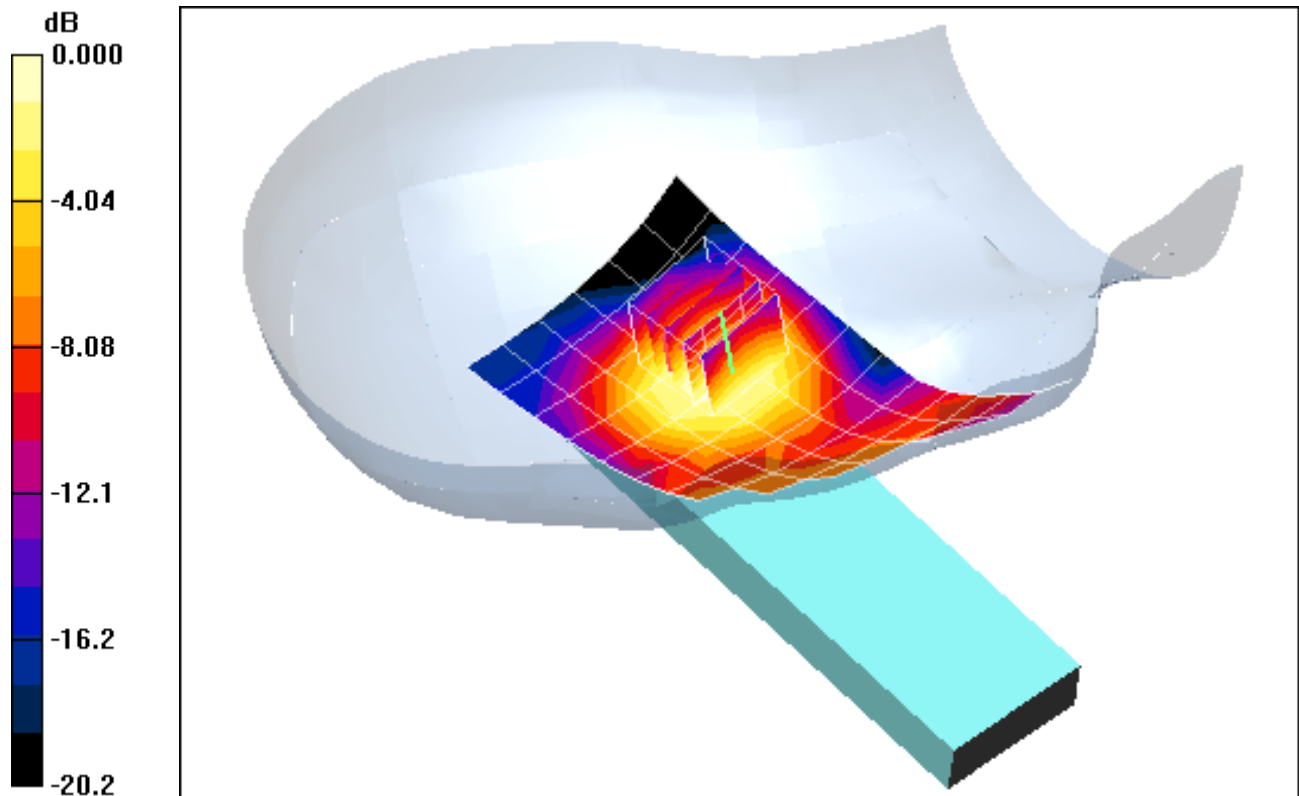
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.24 V/m

Peak SAR (extrapolated) = 0.183 W/kg

**SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.076 mW/g**



0 dB = 0.126mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used:

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.468 \text{ mho/m}$ ;  $\epsilon_r = 40.35$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Left Head, Slide Out, Touch, High.ch**

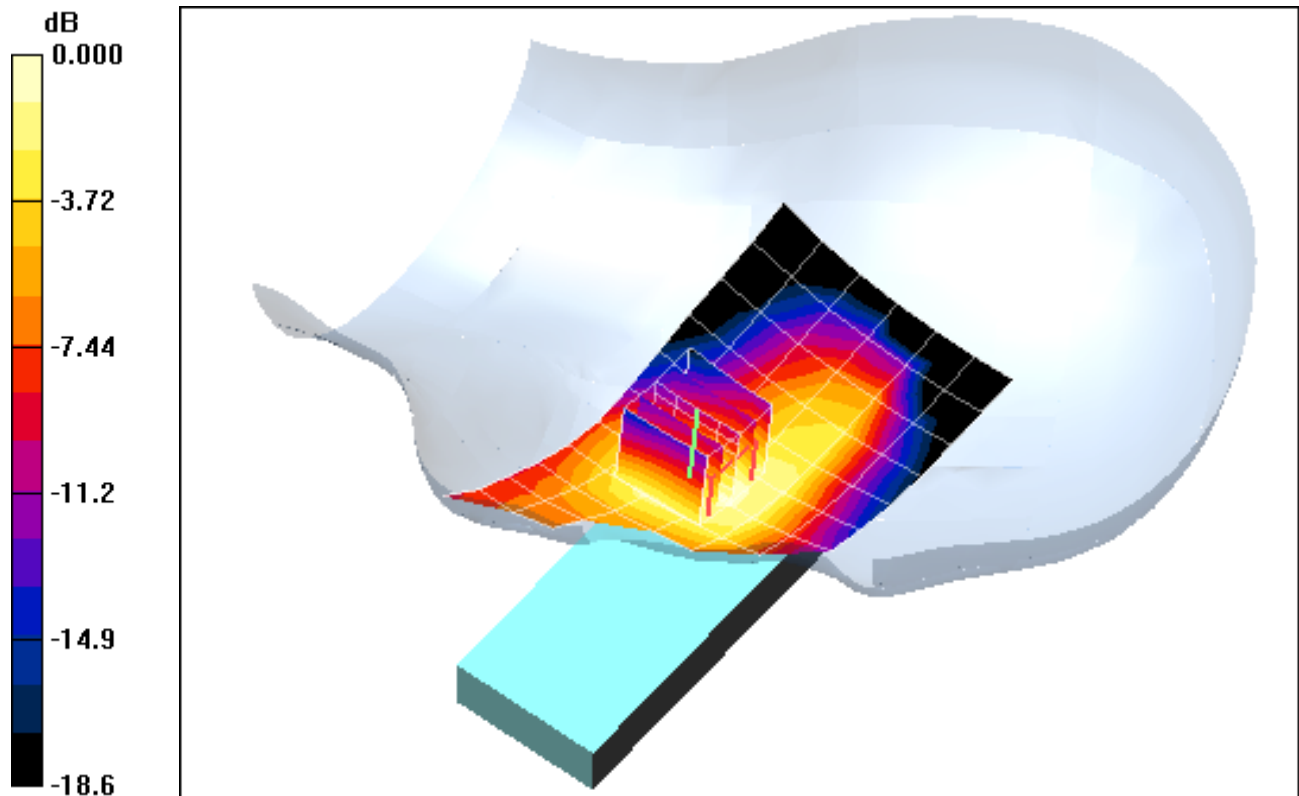
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m

Peak SAR (extrapolated) = 0.280 W/kg

**SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.121 mW/g**



0 dB = 0.204mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 Brain Medium parameters used:

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.468 \text{ mho/m}$ ;  $\epsilon_r = 40.35$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GSM 1900, Left Head, Slide Out, Tilt, High.ch**

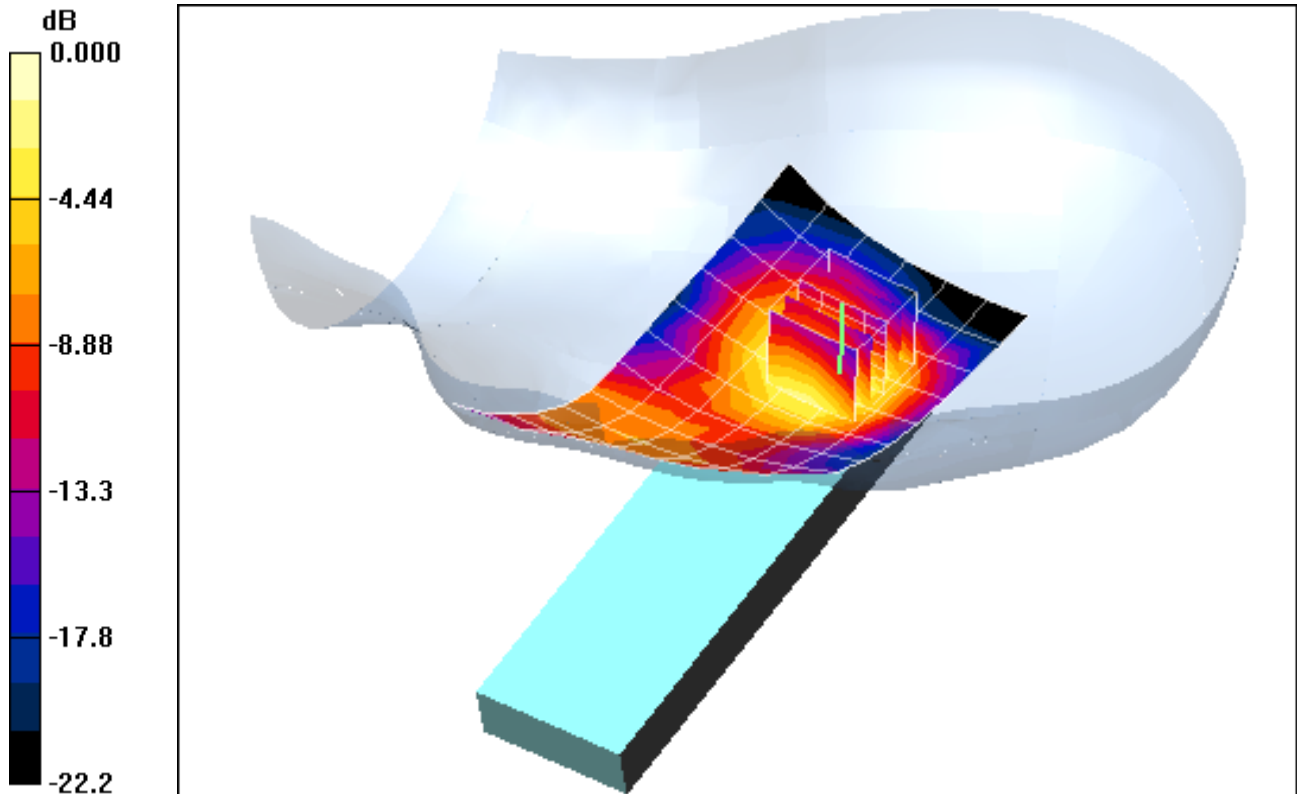
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.4 V/m

Peak SAR (extrapolated) = 0.270 W/kg

**SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.098 mW/g**



0 dB = 0.184mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Right Head, Slide In, Touch, Ch 01, 1 Mbps**

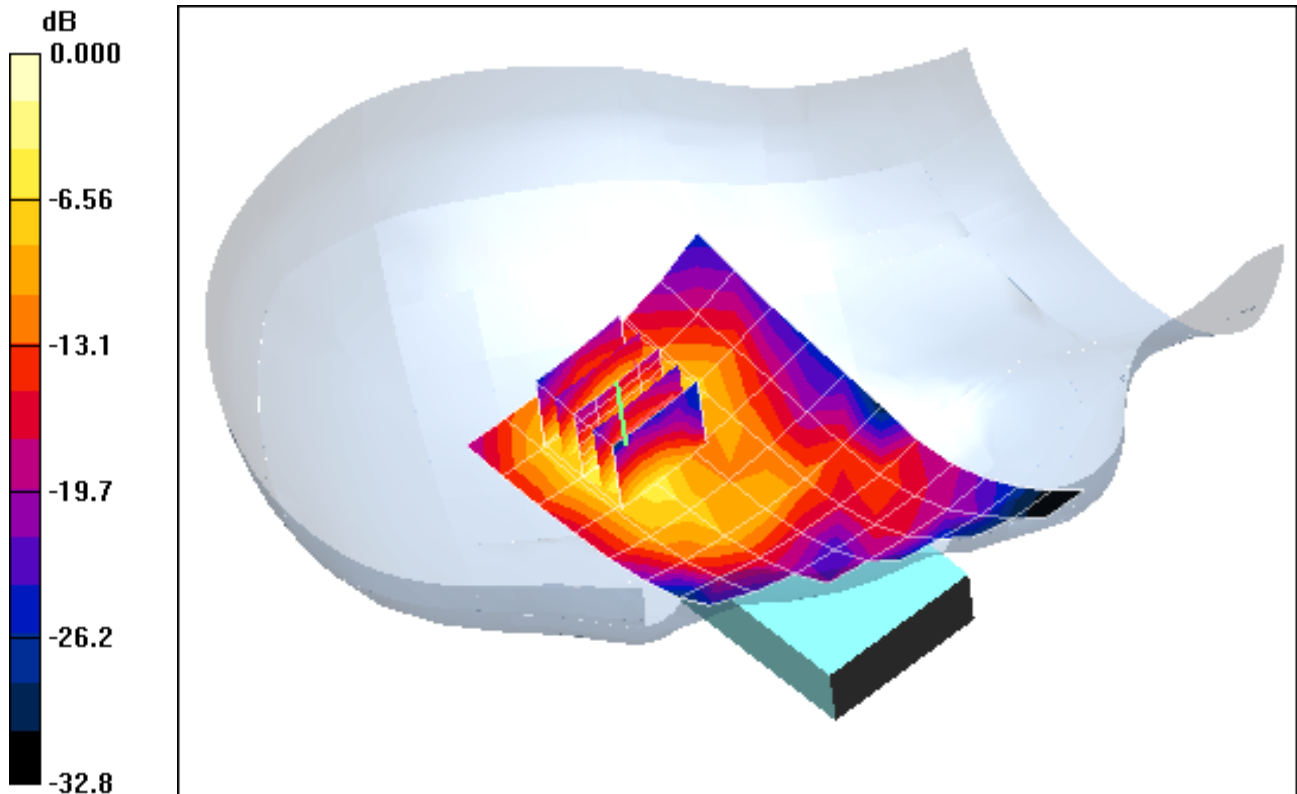
**Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.0 V/m

Peak SAR (extrapolated) = 0.629 W/kg

**SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.120 mW/g**



0 dB = 0.366mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Right Head, Slide In, Touch, Ch 01, 1 Mbps**

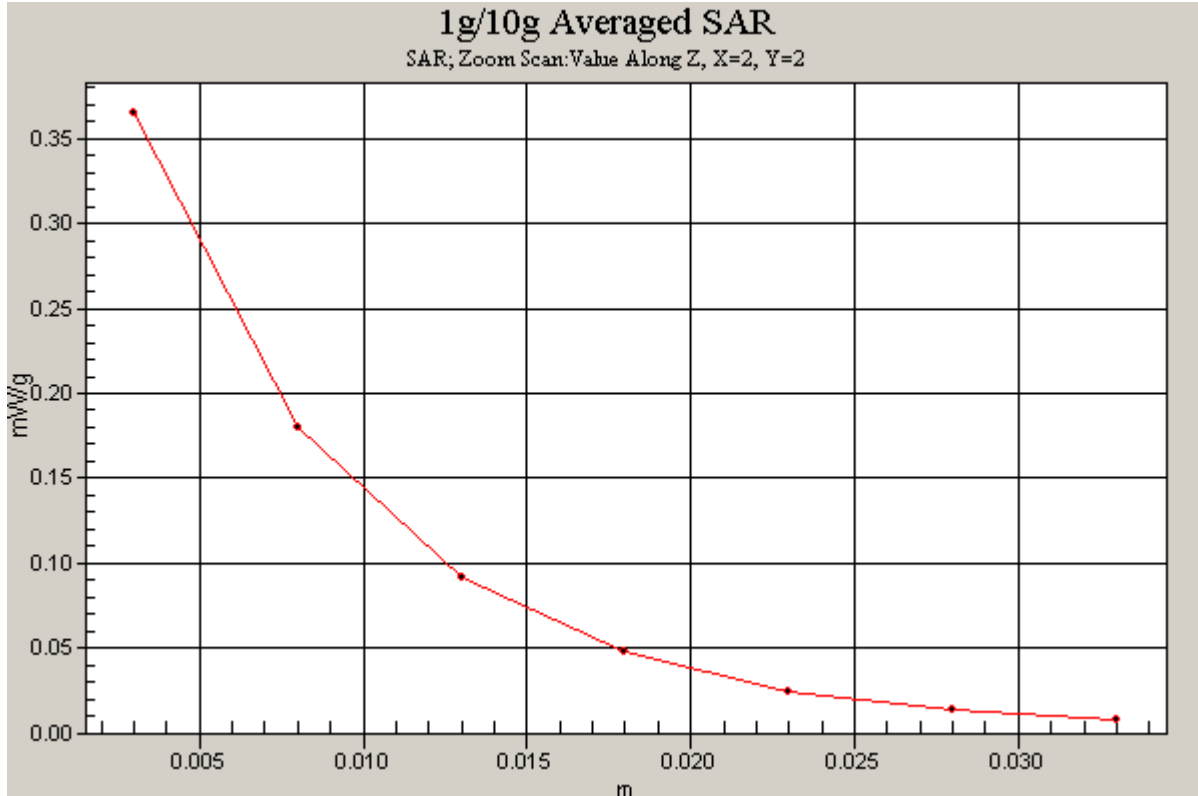
**Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.0 V/m

Peak SAR (extrapolated) = 0.629 W/kg

**SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.120 mW/g**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Right Head, Slide In, Tilt, Ch 01, 1 Mbps**

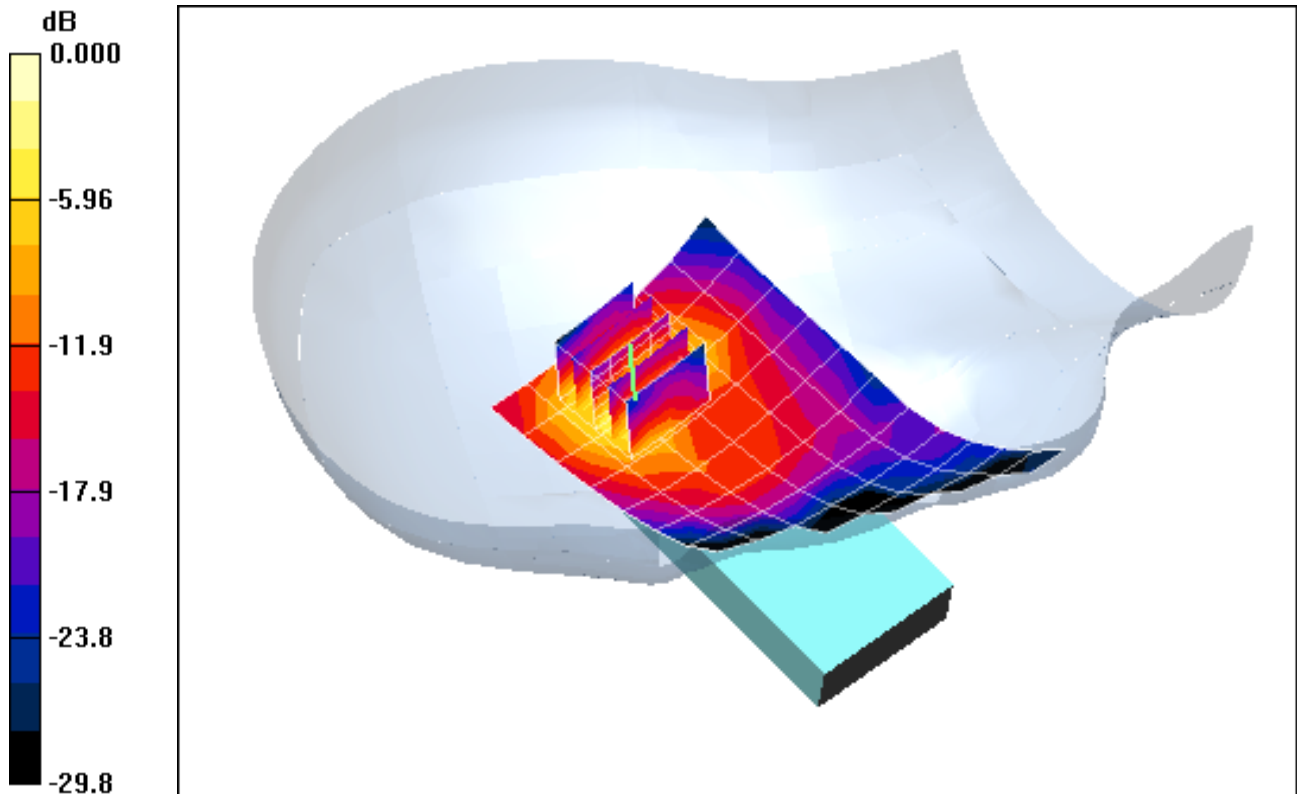
**Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.6 V/m

Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.121 mW/g**



0 dB = 0.407mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Left Head, Slide In, Touch, Ch 01, 1 Mbps**

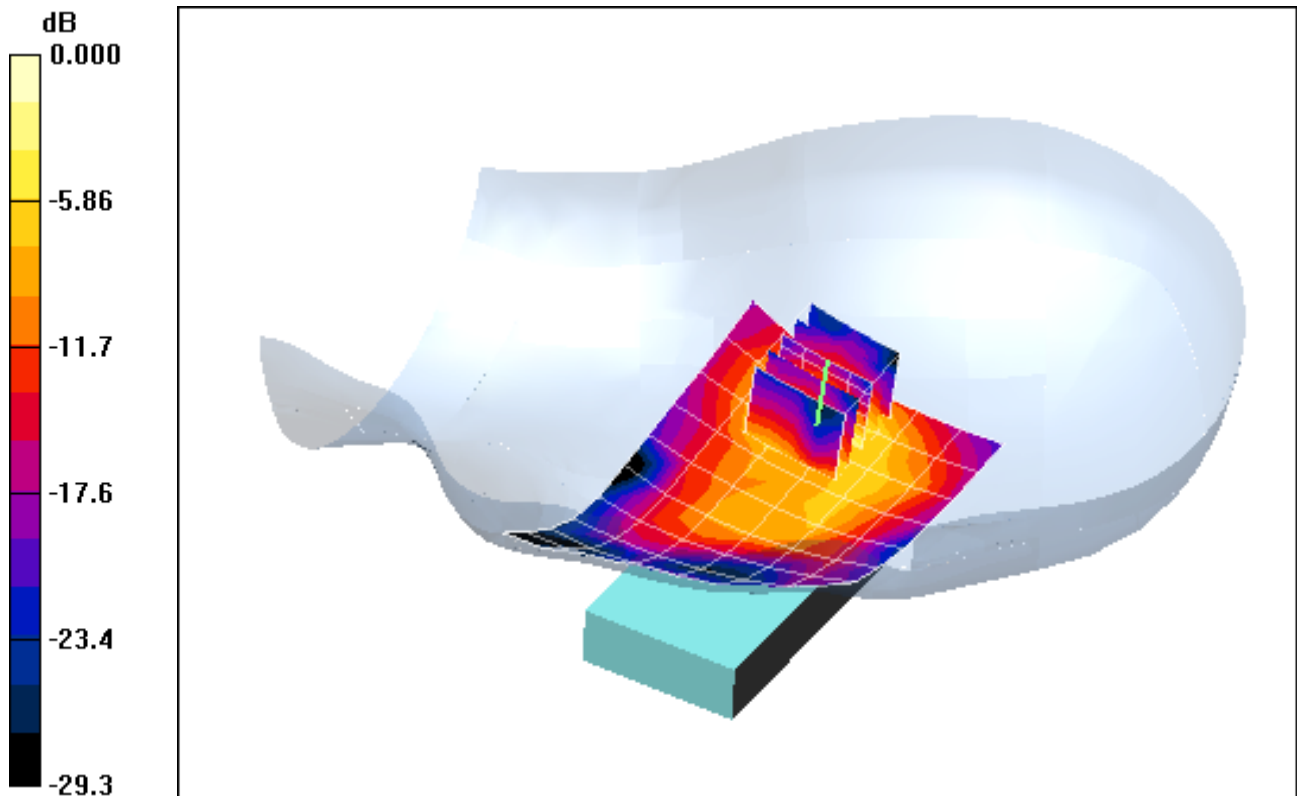
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.81 V/m

Peak SAR (extrapolated) = 0.436 W/kg

**SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.085 mW/g**



0 dB = 0.306mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Left Head, Slide In, Tilt, Ch 01, 1 Mbps**

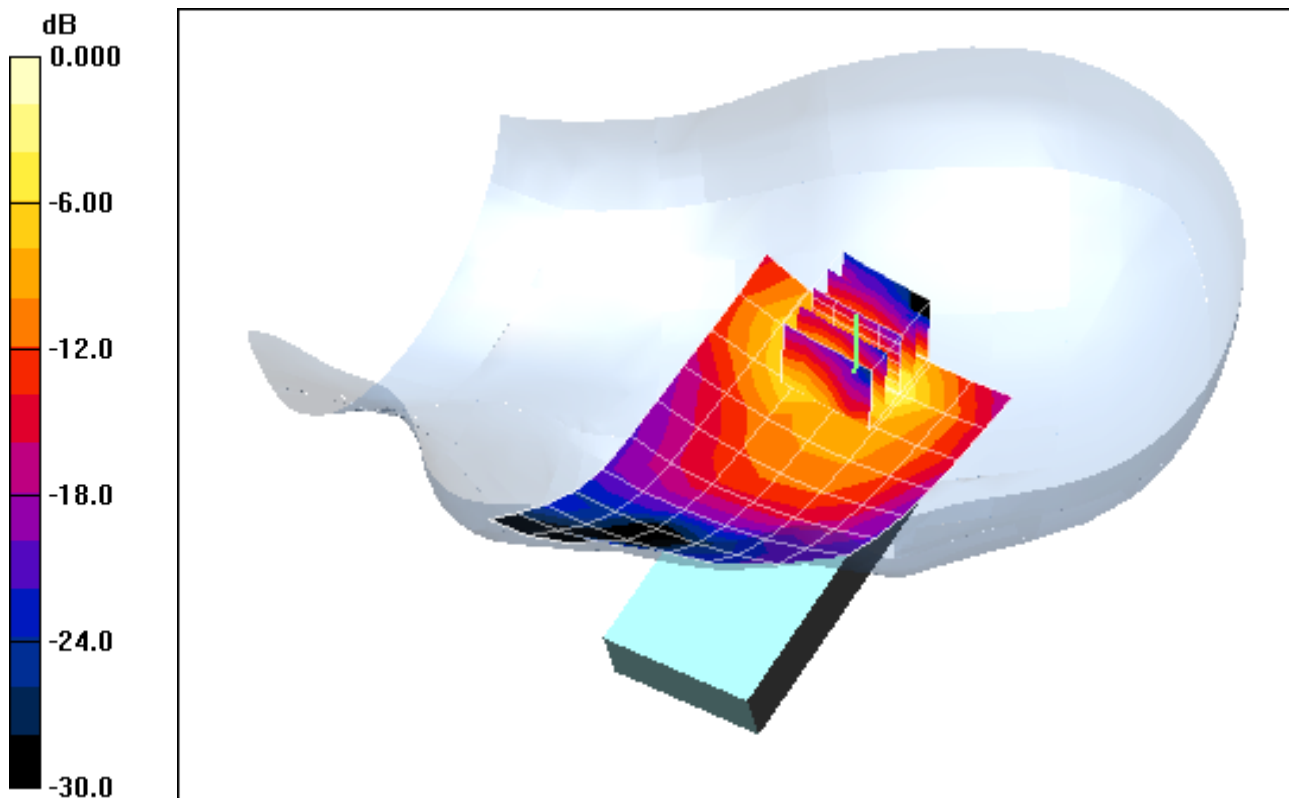
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.3 V/m

Peak SAR (extrapolated) = 0.459 W/kg

**SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.105 mW/g**



0 dB = 0.298mW/g



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Right Head, Touch, Ch 01, 1 Mbps, Slide Out**

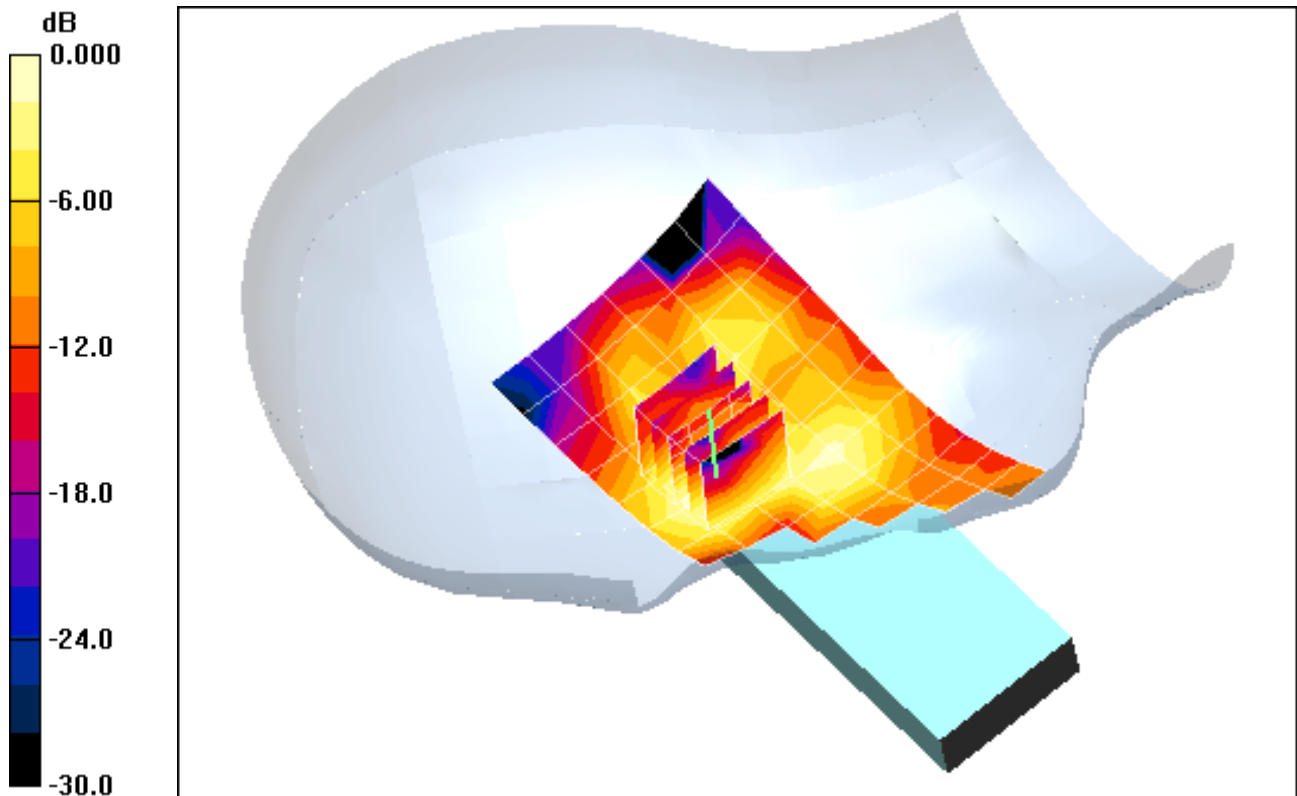
**Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.15 V/m

Peak SAR (extrapolated) = 0.103 W/kg

**SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.032 mW/g**



0 dB = 0.074mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Right Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Right Head, Tilt, Ch 01, 1 Mbps, Slide Out**

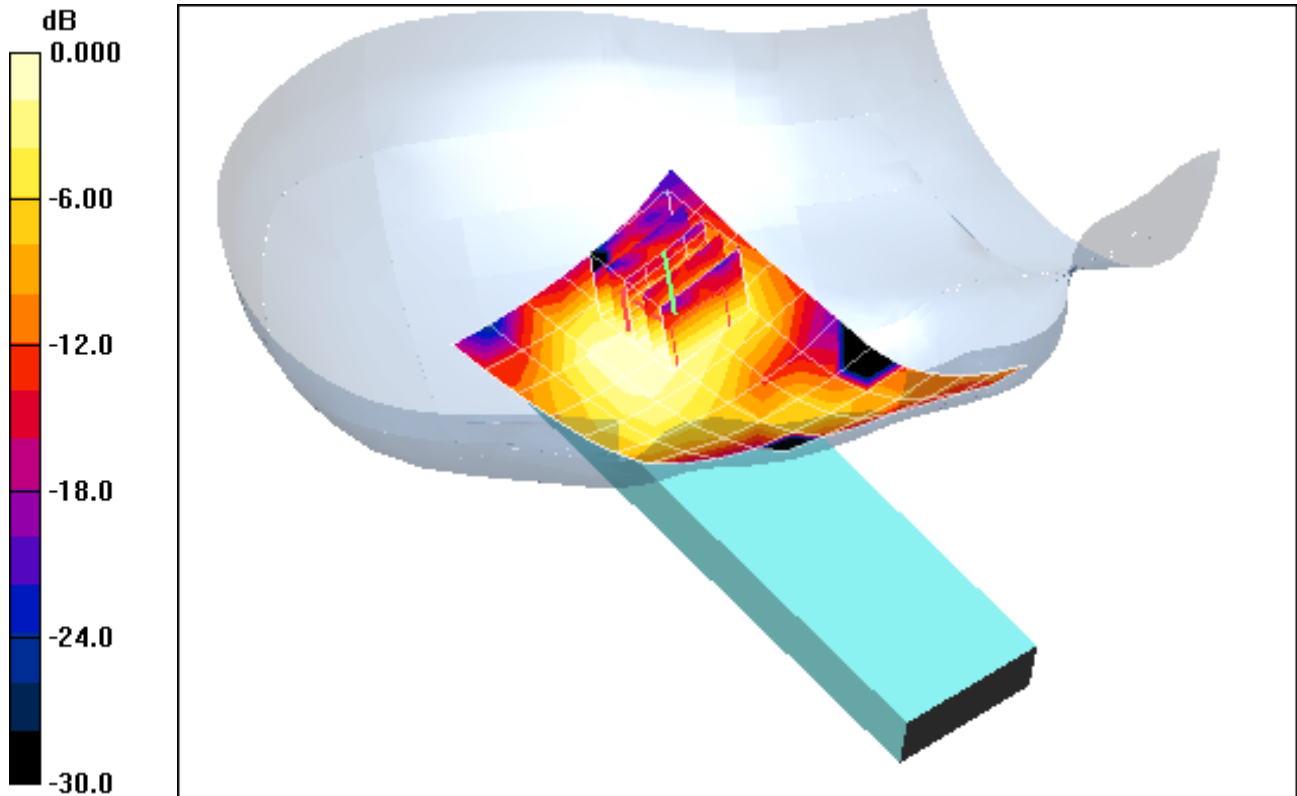
**Area Scan (7x14x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.27 V/m

Peak SAR (extrapolated) = 0.057 W/kg

**SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.017 mW/g**



0 dB = 0.040mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Left Head, Slide Out, Touch, Ch 01, 1 Mbps**

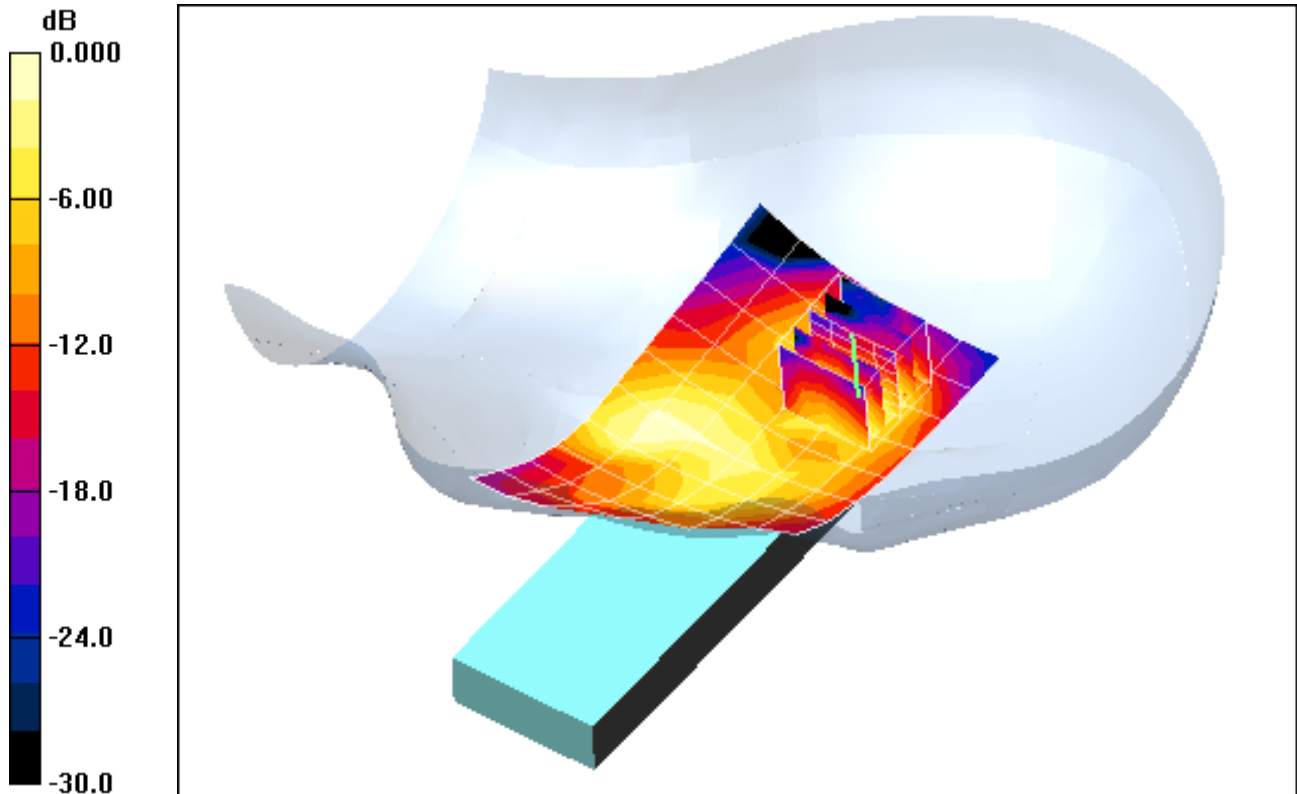
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.95 V/m

Peak SAR (extrapolated) = 0.128 W/kg

**SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.028 mW/g**



0 dB = 0.086mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Brain Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.8 \text{ mho/m}; \epsilon_r = 38.4; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Left Section

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Left Head, Tilt, Ch 01, 1 Mbps Slide Out**

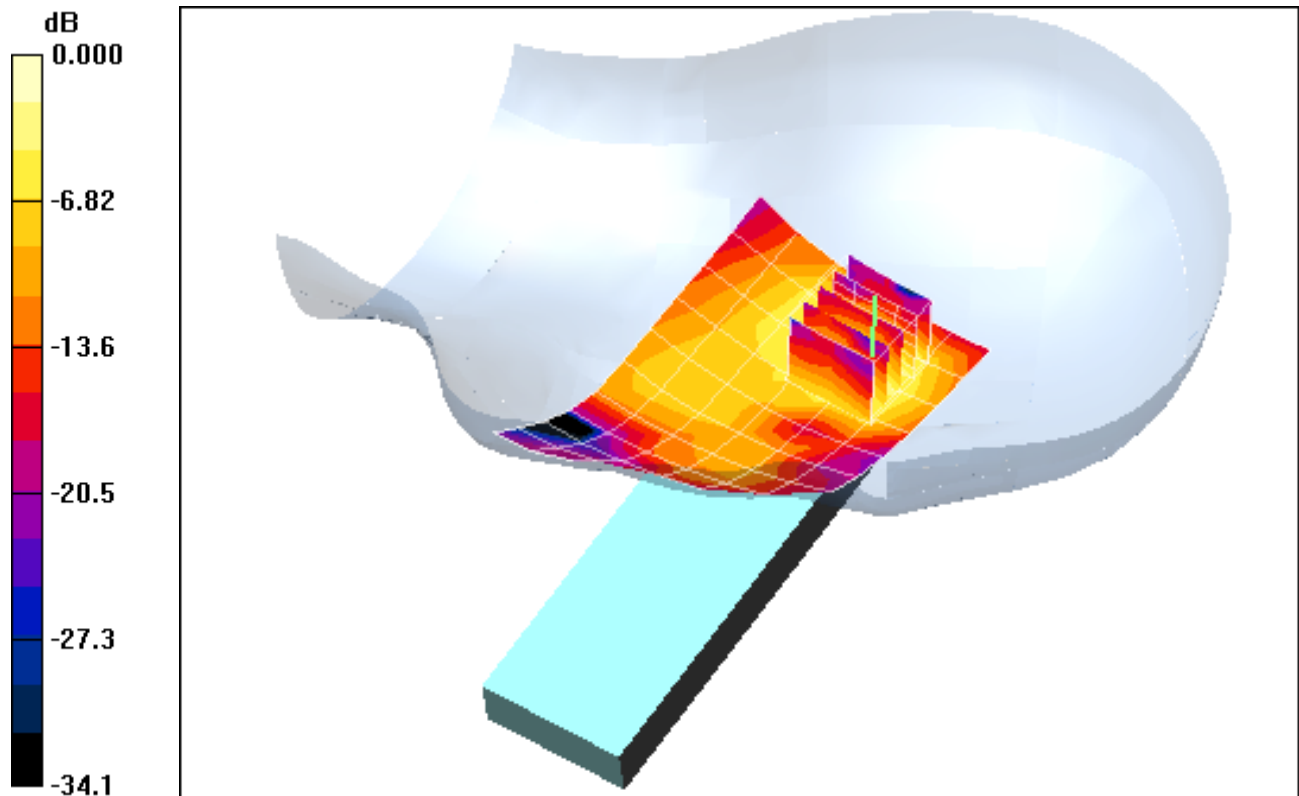
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.19 V/m

Peak SAR (extrapolated) = 0.109 W/kg

**SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.027 mW/g**



0 dB = 0.070mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: 835 Muscle Medium parameters used (interpolated):

$f = 824.7 \text{ MHz}$ ;  $\sigma = 0.993 \text{ mho/m}$ ;  $\epsilon_r = 56.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-17-2010; Ambient Temp: 24.4 °C; Tissue Temp: 23.0 °C

Probe: EX3DV4 - SN3550; ConvF(8.3, 8.3, 8.3); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Body SAR, Back Side, Slide In, Low.ch**

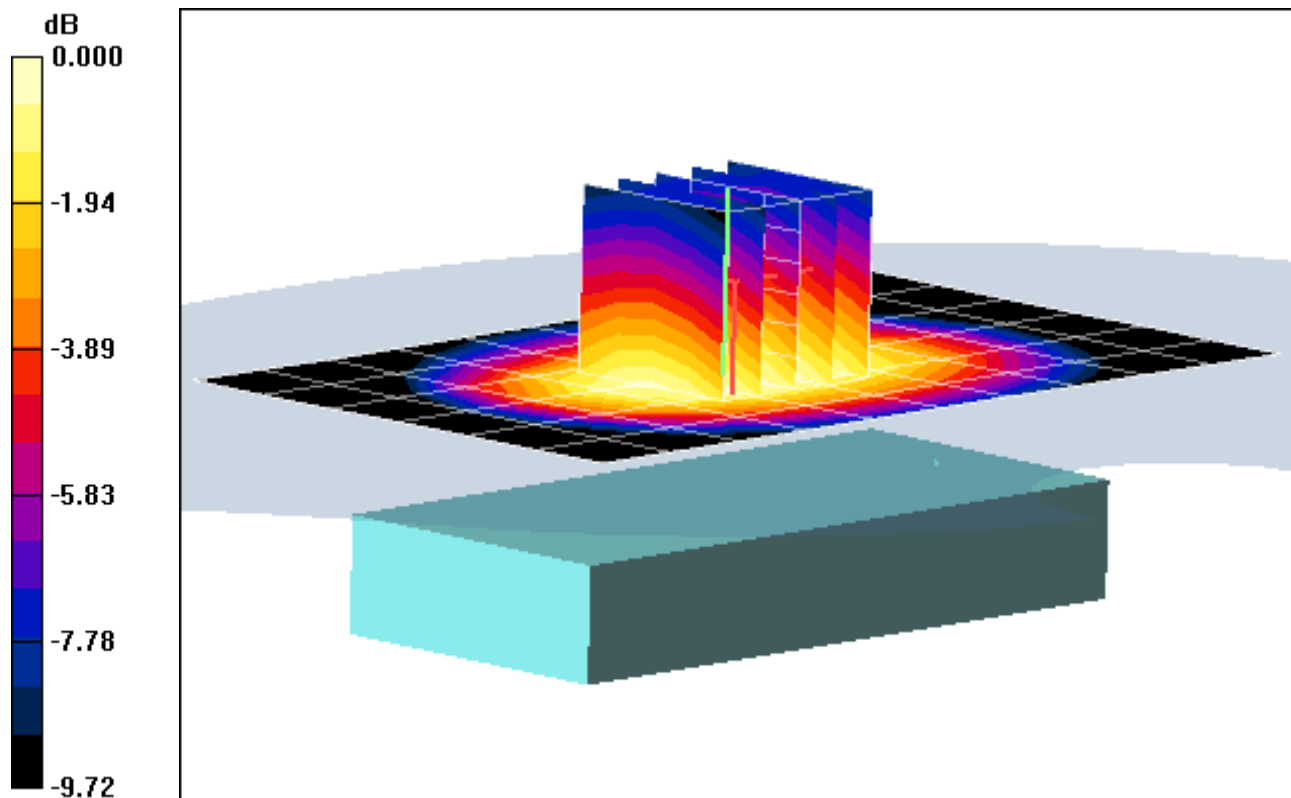
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.3 V/m

Peak SAR (extrapolated) = 0.517 W/kg

**SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.286 mW/g**



0 dB = 0.415mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth and WLAN; Serial: SSOGH001044**

Communication System: Cellular CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: 835 Muscle Medium parameters used (interpolated):

$f = 824.7 \text{ MHz}$ ;  $\sigma = 0.993 \text{ mho/m}$ ;  $\epsilon_r = 56.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-17-2010; Ambient Temp: 24.4 °C; Tissue Temp: 23.0 °C

Probe: EX3DV4 - SN3550; ConvF(8.3, 8.3, 8.3); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1357

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: Cellular CDMA, Body SAR, Back Side, Slide In, Low.ch**

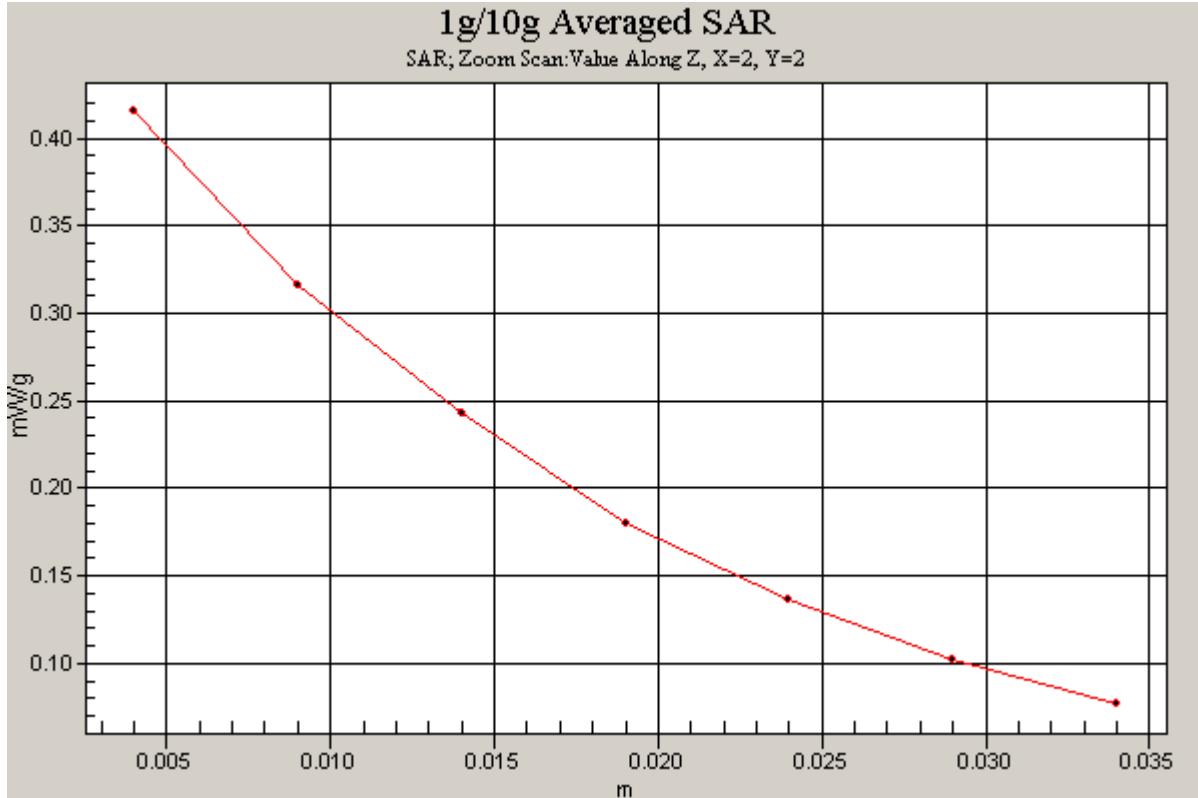
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.3 V/m

Peak SAR (extrapolated) = 0.517 W/kg

**SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.286 mW/g**



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth; Serial: SSOGH001044**

Communication System: GSM1900 GPRS; 2 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15  
Medium: 1900 Muscle Medium parameters used:

$$f = 1910 \text{ MHz}; \sigma = 1.579 \text{ mho/m}; \epsilon_r = 51.8; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-17-2010; Ambient Temp: 22.8 °C; Tissue Temp: 21.7 °C

Probe: ES3DV2 - SN3022; ConvF(4.34, 4.34, 4.34); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GPRS 1900, Body SAR, Back Side, Slide In, High.ch, 2 Tx Slots**

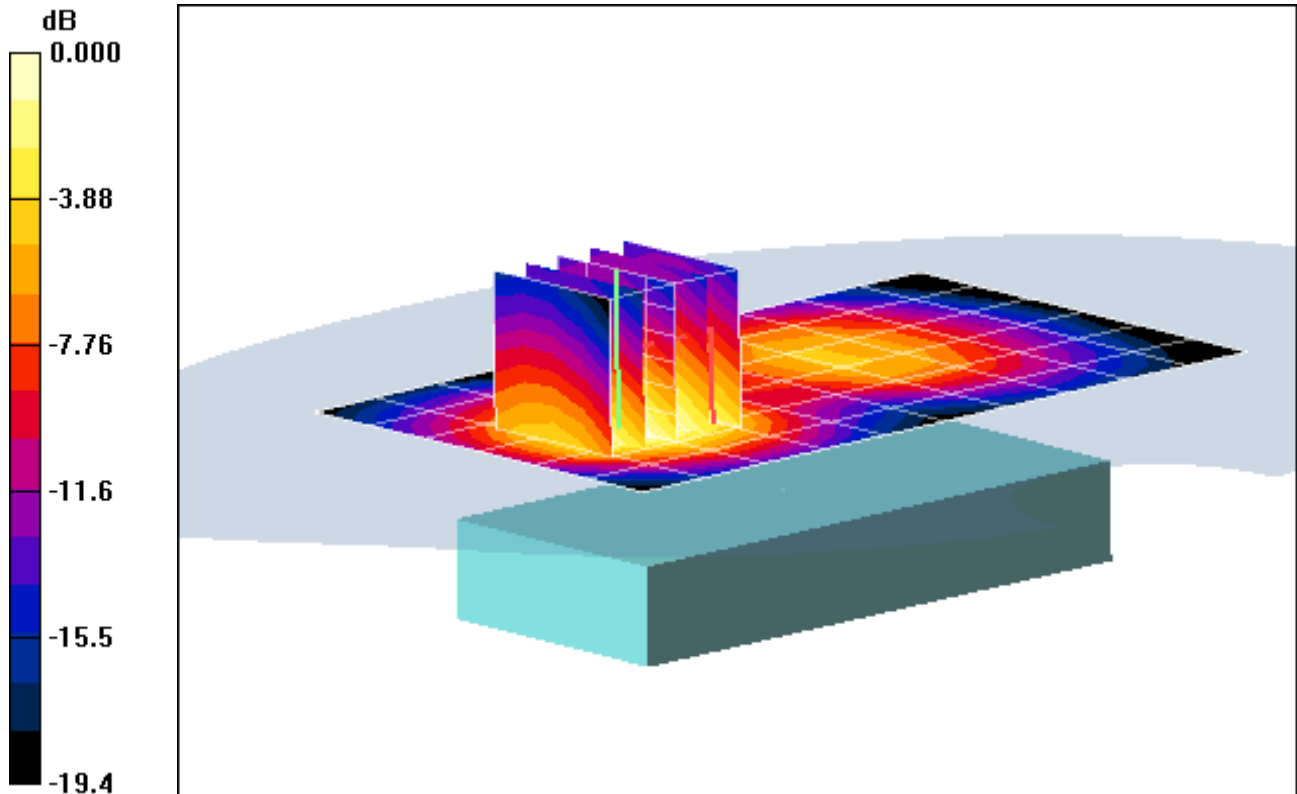
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.4 V/m

Peak SAR (extrapolated) = 0.661 W/kg

**SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.246 mW/g**



0 dB = 0.455mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone  
with Bluetooth; Serial: SSOGH001044**

Communication System: GSM1900 GPRS; 2 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15  
Medium: 1900 Muscle Medium parameters used:

$$f = 1910 \text{ MHz}; \sigma = 1.579 \text{ mho/m}; \epsilon_r = 51.8; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-17-2010; Ambient Temp: 22.8 °C; Tissue Temp: 21.7 °C

Probe: ES3DV2 - SN3022; ConvF(4.34, 4.34, 4.34); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: GPRS 1900, Body SAR, Back Side, Slide In, High.ch, 2 Tx Slots**

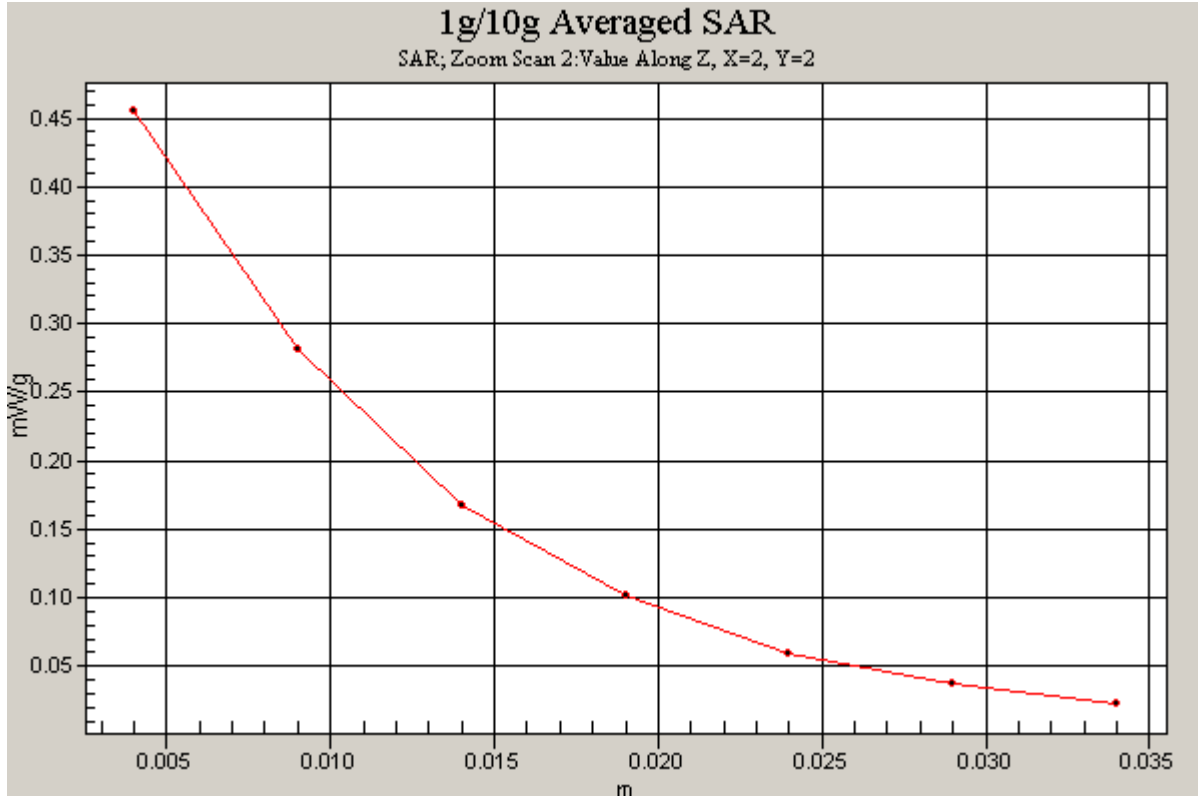
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.4 V/m

Peak SAR (extrapolated) = 0.661 W/kg

**SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.246 mW/g**





# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Muscle Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.94 \text{ mho/m}; \epsilon_r = 53.3; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-15-2010; Ambient Temp: 22.9 °C; Tissue Temp: 21.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.06, 4.06, 4.06); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Body SAR, Ch 01, 1 Mbps, Back Side, Slide In**

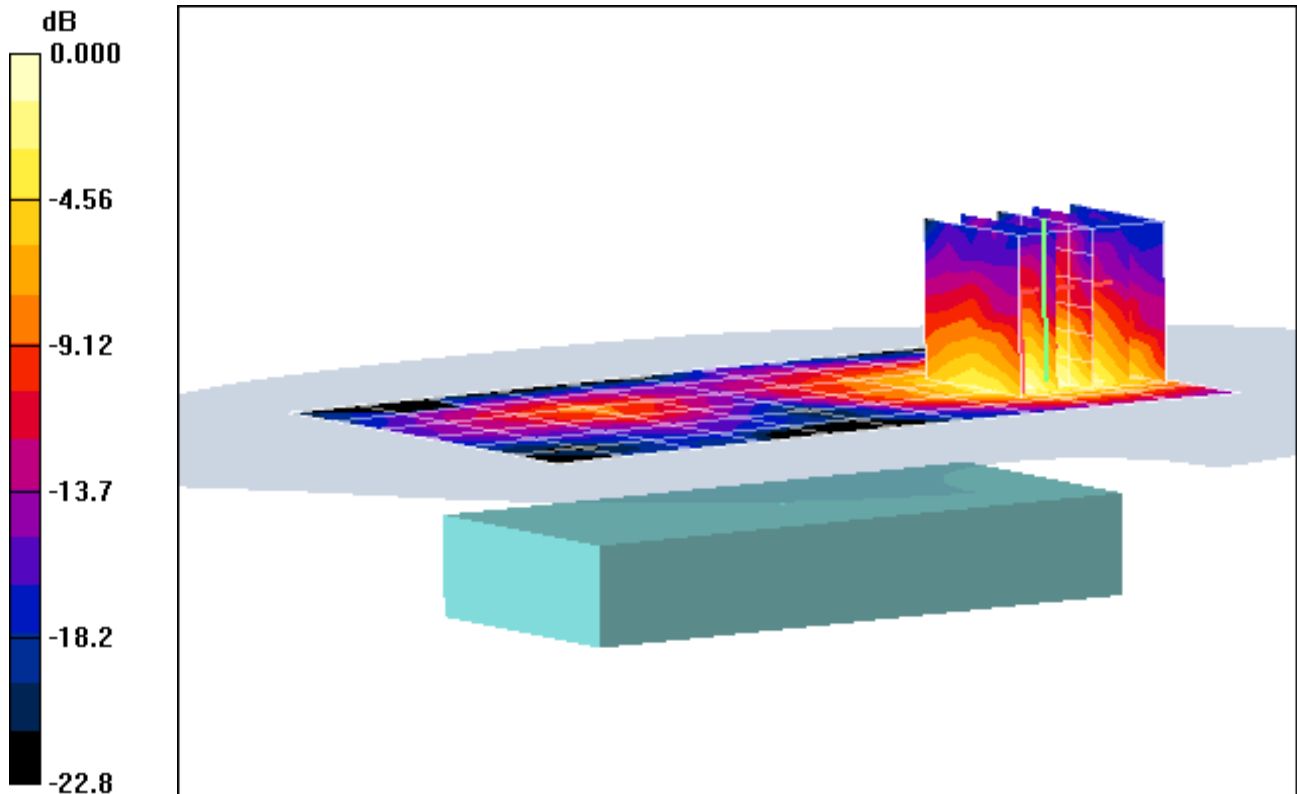
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.57 V/m

Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.035 mW/g**



0 dB = 0.087mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: CDMA S0006; Type: Cellular CDMA and PCS GSM/GPRS Phone with Bluetooth; Serial: SSOGH001044**

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: 2450 Muscle Medium parameters used (interpolated):

$$f = 2412 \text{ MHz}; \sigma = 1.94 \text{ mho/m}; \epsilon_r = 53.3; \rho = 1000 \text{ kg/m}^3$$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-15-2010; Ambient Temp: 22.9° C; Tissue Temp: 21.1° C

Probe: ES3DV2 - SN3022; ConvF(4.06, 4.06, 4.06); Calibrated: 9/21/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Mode: IEEE 802.11b, Body SAR, Ch 01, 1 Mbps, Back Side, Slide In**

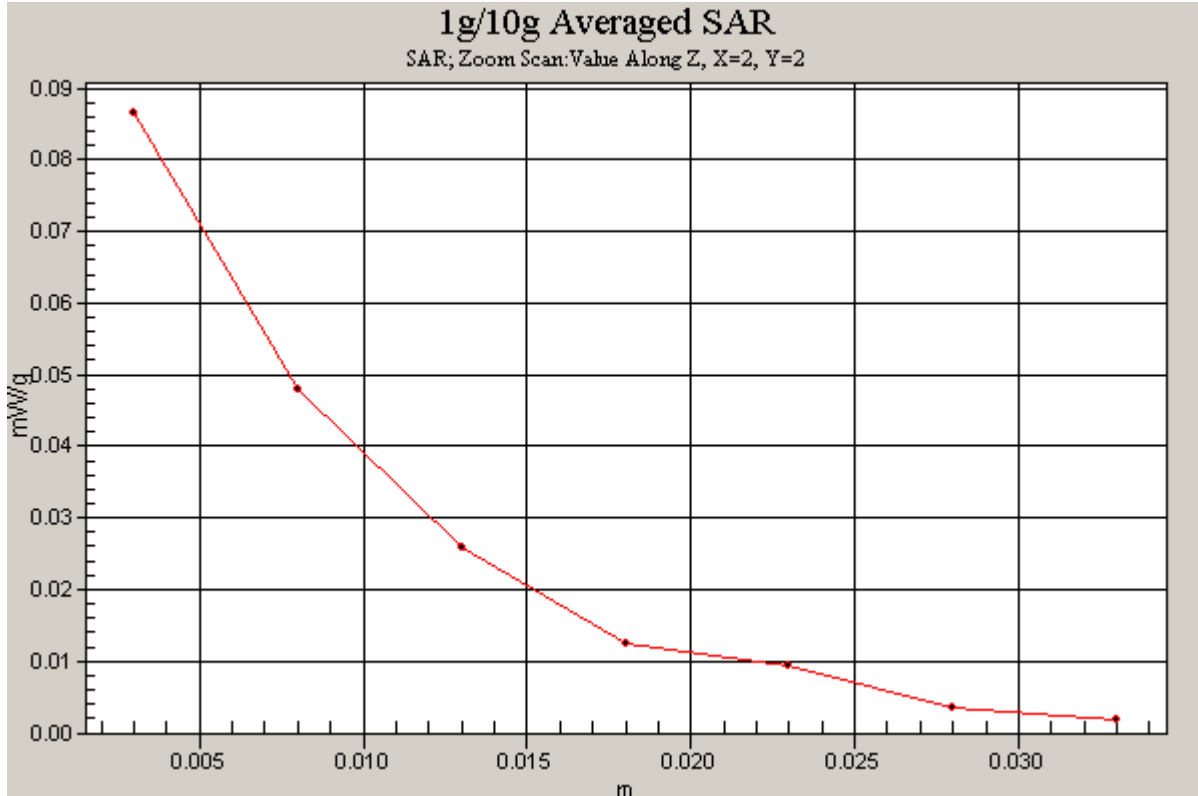
**Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.57 V/m

Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.035 mW/g**



## **APPENDIX B: DIPOLE VALIDATION**

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d026**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-02-2010; Ambient Temp: 23.2 °C; Tissue Temp: 21.4 °C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

## 835MHz System Verification

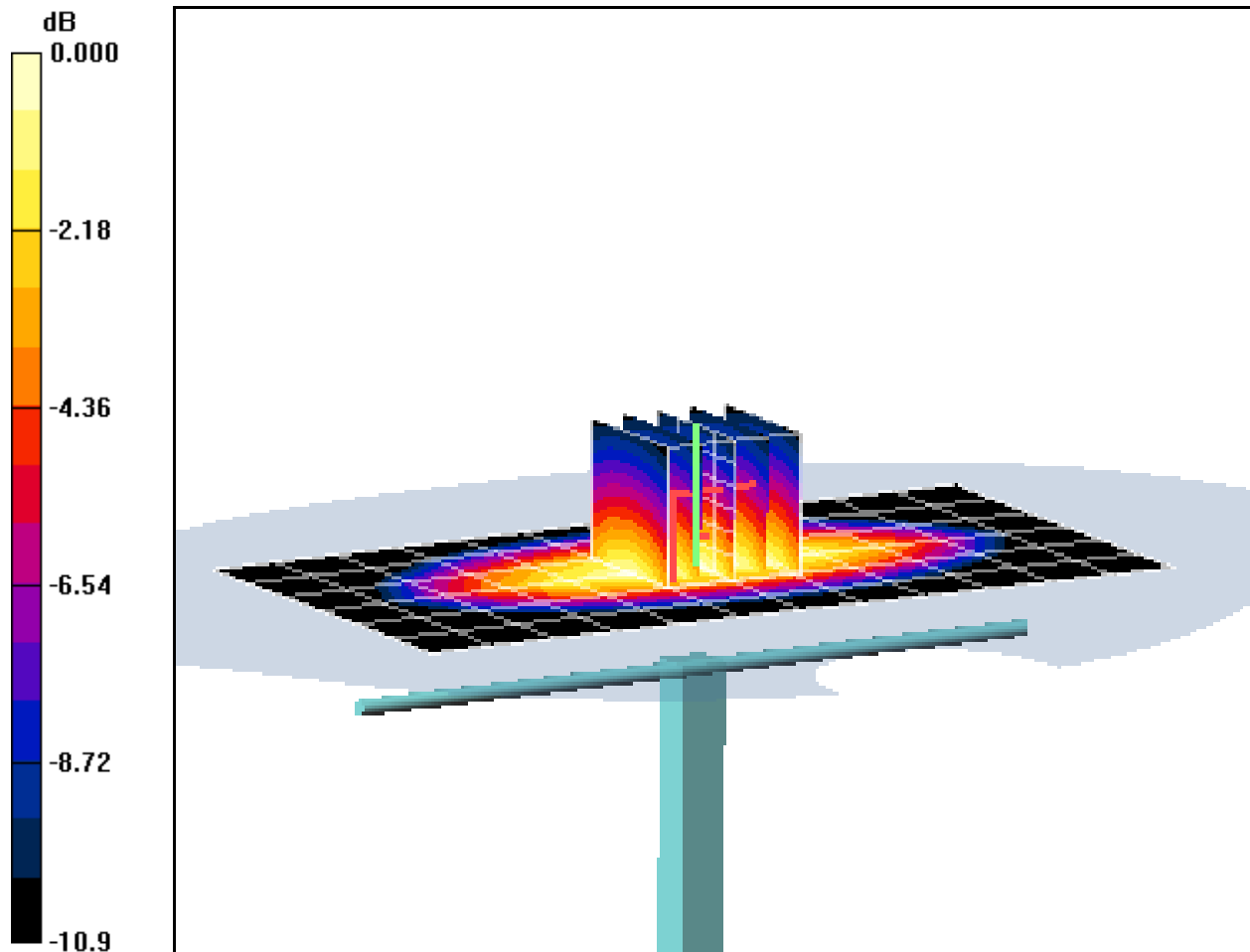
**Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

**SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.603 mW/g**

Deviation = -1.16 %



0 dB = 1.10mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: SAR Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Brain Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11-03-2010; Ambient Temp: 23.0 °C; Tissue Temp: 21.1 °C

Probe: EX3DV4 - SN3550; ConvF(6.81, 6.81, 6.81); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

## 1900MHz System Verification

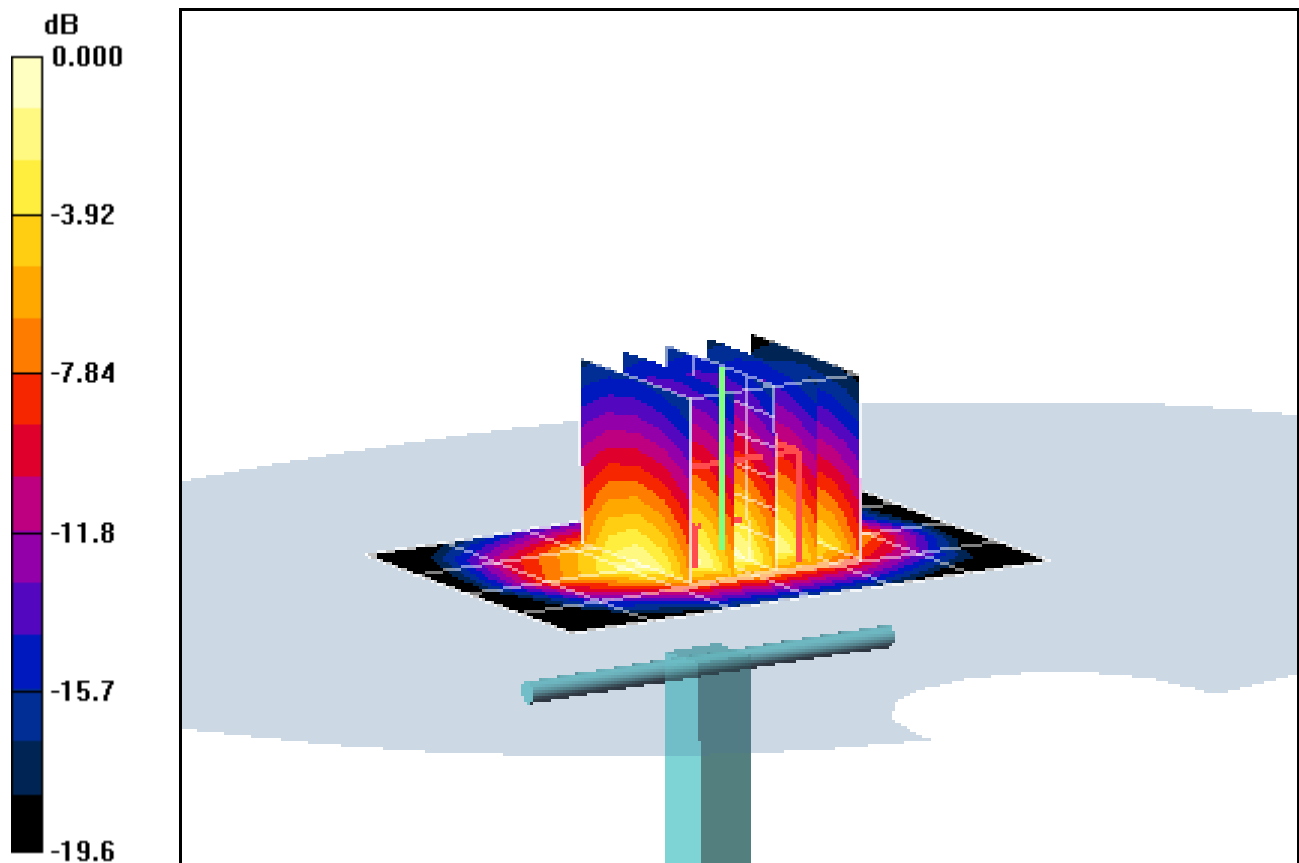
**Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 16.0 dBm (40 mW)

**SAR(1 g) = 1.52 mW/g; SAR(10 g) = 0.770 mW/g**

Deviation = -5.24 %



0 dB = 1.66mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d026**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Brain Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.905 \text{ mho/m}$ ;  $\epsilon_r = 42.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11-17-2010; Ambient Temp: 23.8 °C; Tissue Temp: 22.3 °C

Probe: EX3DV4 - SN3550; ConvF(8.28, 8.28, 8.28); Calibrated: 1/26/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn649; Calibrated: 1/22/2010

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1114

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

## 835MHz System Verification

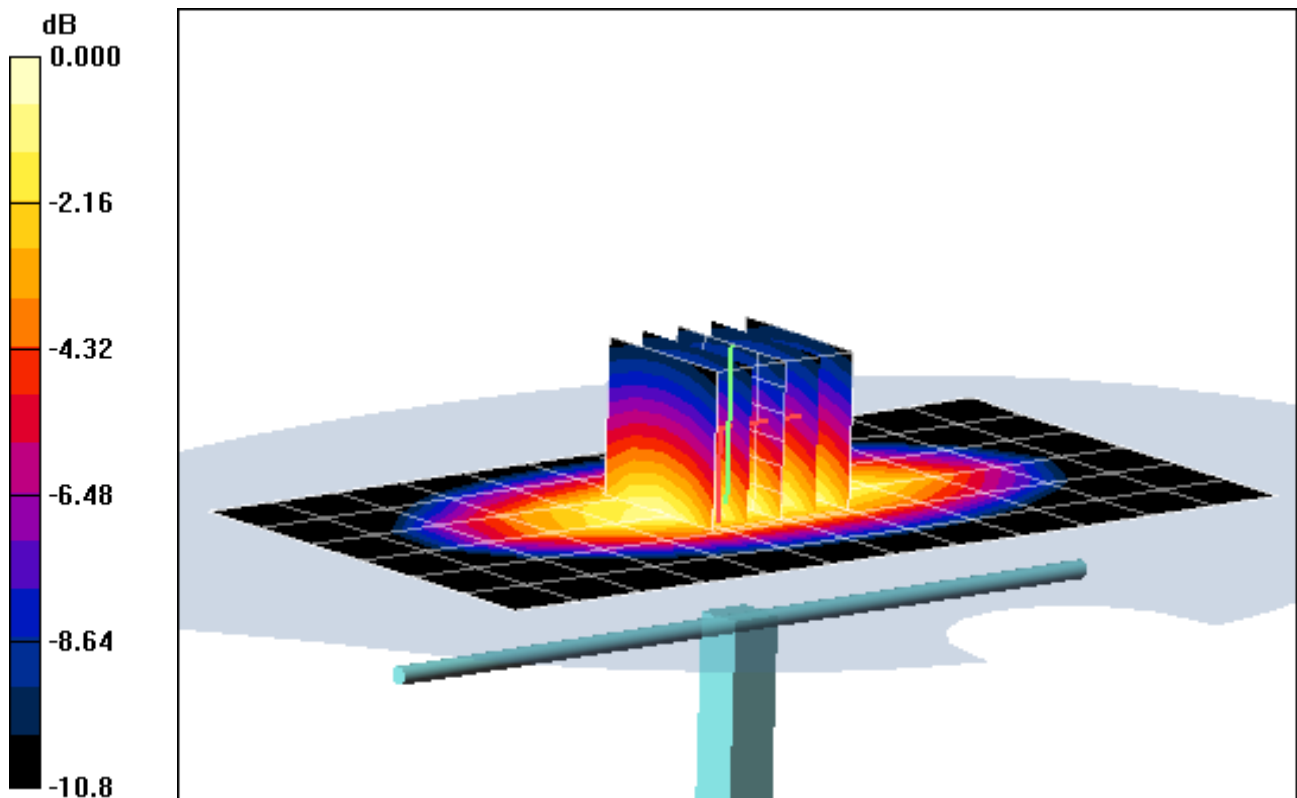
**Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

**SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.603 mW/g**

Deviation = -1.59 %



0 dB = 1.01mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: SAR Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Brain Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 40.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11-17-2010; Ambient Temp: 23.2 °C; Tissue Temp: 22.1 °C

Probe: ES3DV2 - SN3022; ConvF(4.83, 4.83, 4.83); Calibrated: 9/21/2010

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

## 1900MHz System Verification

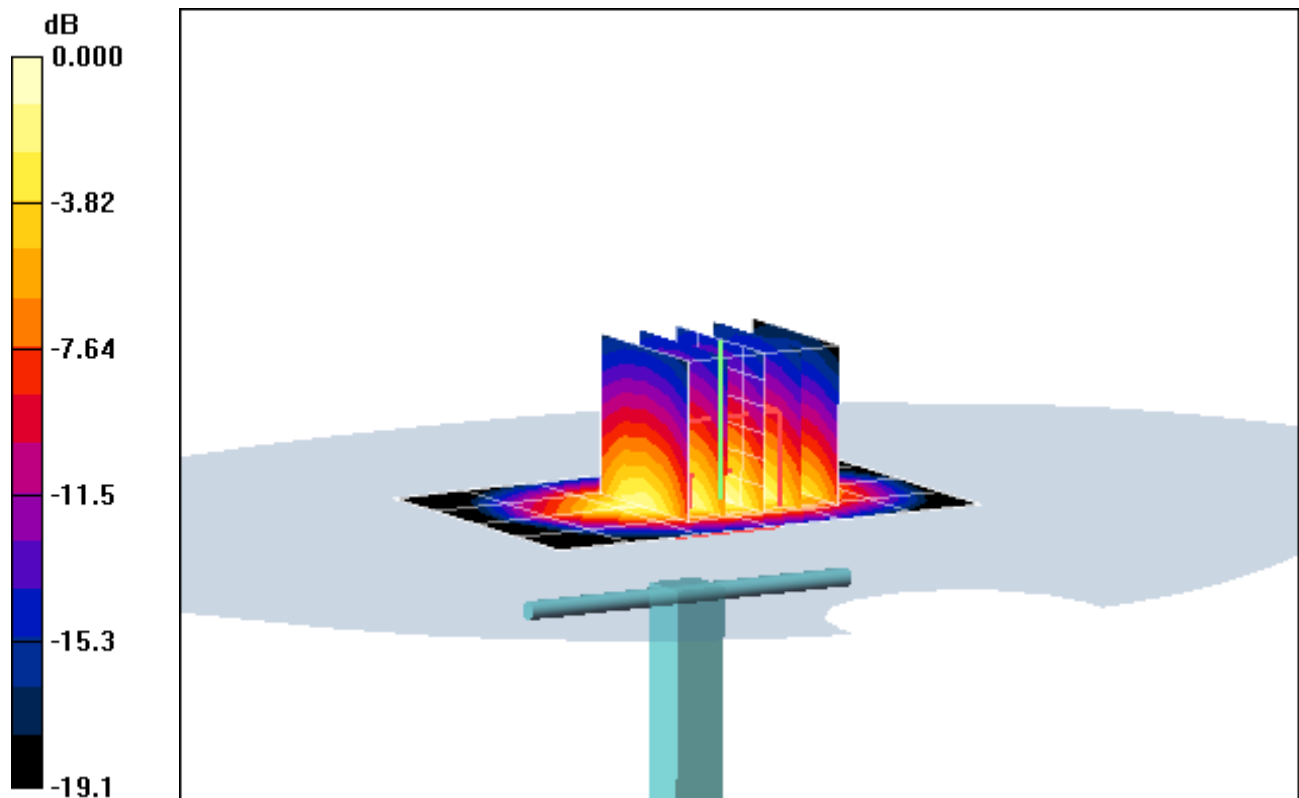
**Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 18.73 dBm (74.6 mW)

**SAR(1 g) = 3 mW/g; SAR(10 g) = 1.53 mW/g**

Deviation = 0.23 %



0 dB = 3.29mW/g

# PCTEST ENGINEERING LABORATORY, INC.

**DUT: SAR Dipole 2450 MHz; Type: D2450V2; Serial: 797**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Brain Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 1.85 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11-15-2010; Ambient Temp: 23.8 °C; Tissue Temp: 21.9 °C

Probe: ES3DV2 - SN3022; ConvF(4.21, 4.21, 4.21); Calibrated: 9/21/2010

Sensor-Surface: 5mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 4/21/2010

Phantom: SAM with CRP; Type: SAM; Serial: TP1375

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

## 2450MHz System Verification

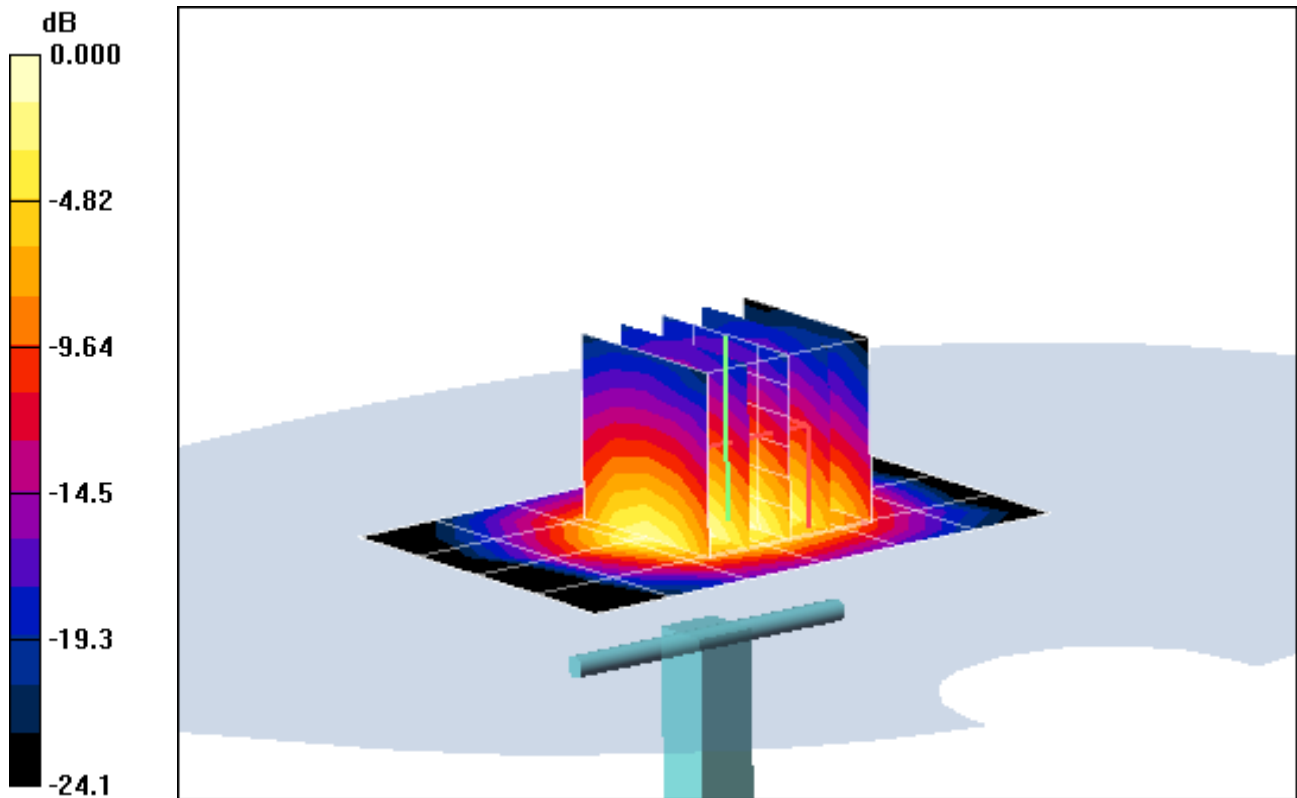
**Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 12 dBm (15.8 mW)

**SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.397 mW/g**

Deviation = 5.04 %



0 dB = 0.817mW/g



# PCTEST ENGINEERING LABORATORY, INC.

**DUT: SAR Dipole 2450 MHz; Type: D2450V2; Serial: 797**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Brain Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 1.85 \text{ mho/m}$ ;  $\epsilon_r = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11-18-2010; Ambient Temp: 23.9 °C; Tissue Temp: 22.6 °C

Probe: ES3DV3 - SN3213; ConvF(4.36, 4.36, 4.36); Calibrated: 3/16/2010

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn704; Calibrated: 3/22/2010

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1403

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

## 2450MHz System Verification

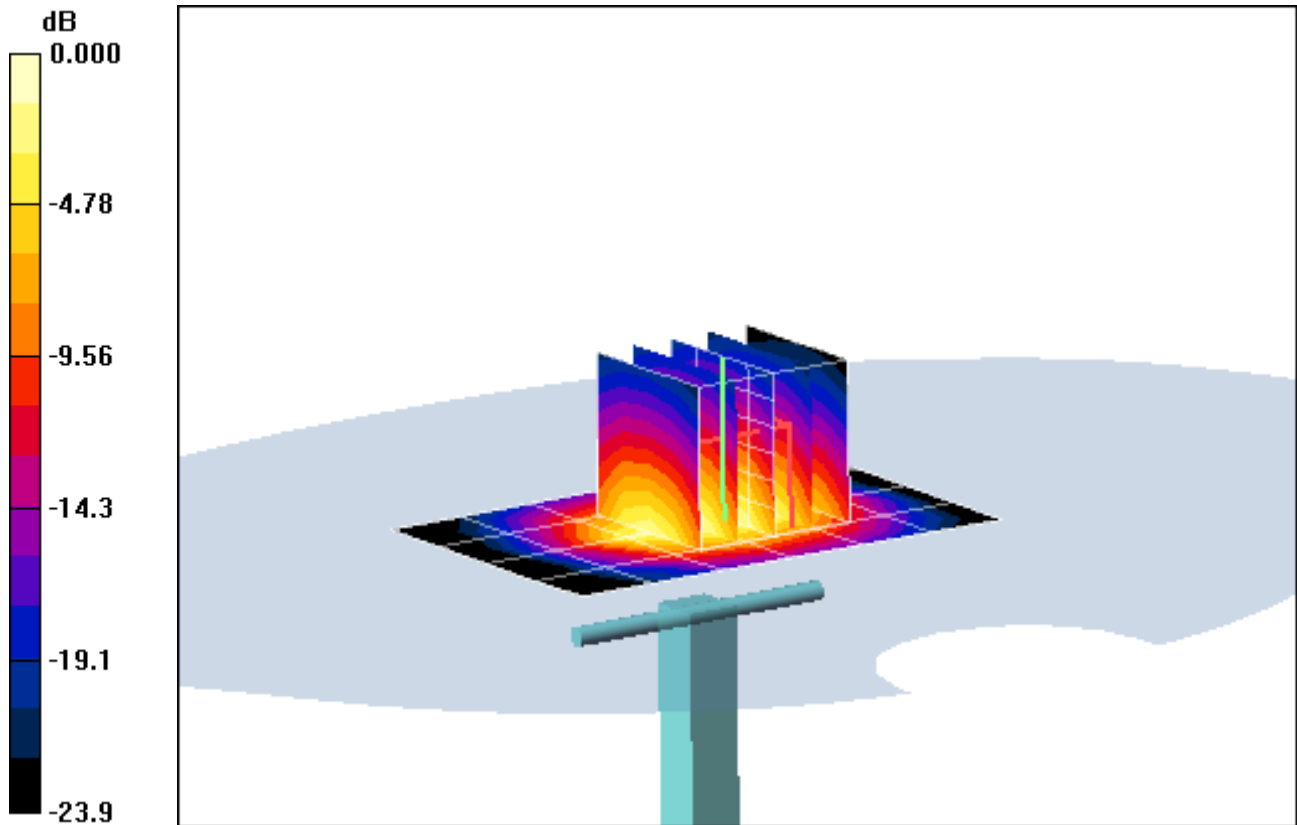
**Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Input Power = 20.0 dBm (100 mW)

**SAR(1 g) = 5.39 mW/g; SAR(10 g) = 2.47 mW/g**

Deviation = 4.26 %



0 dB = 6.90mW/g