

PCTEST ENGINEERING LABORATORY, INC.

DUT: SPH-A513; Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO; Serial: FE-097-A

Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.91$ mho/m, $\epsilon_r = 41.78$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 6-05-2007; Ambient Temp: 23°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3550; ConvF(7.98, 7.98, 7.98); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: Cellular Right Head, Touch, Mid.ch.

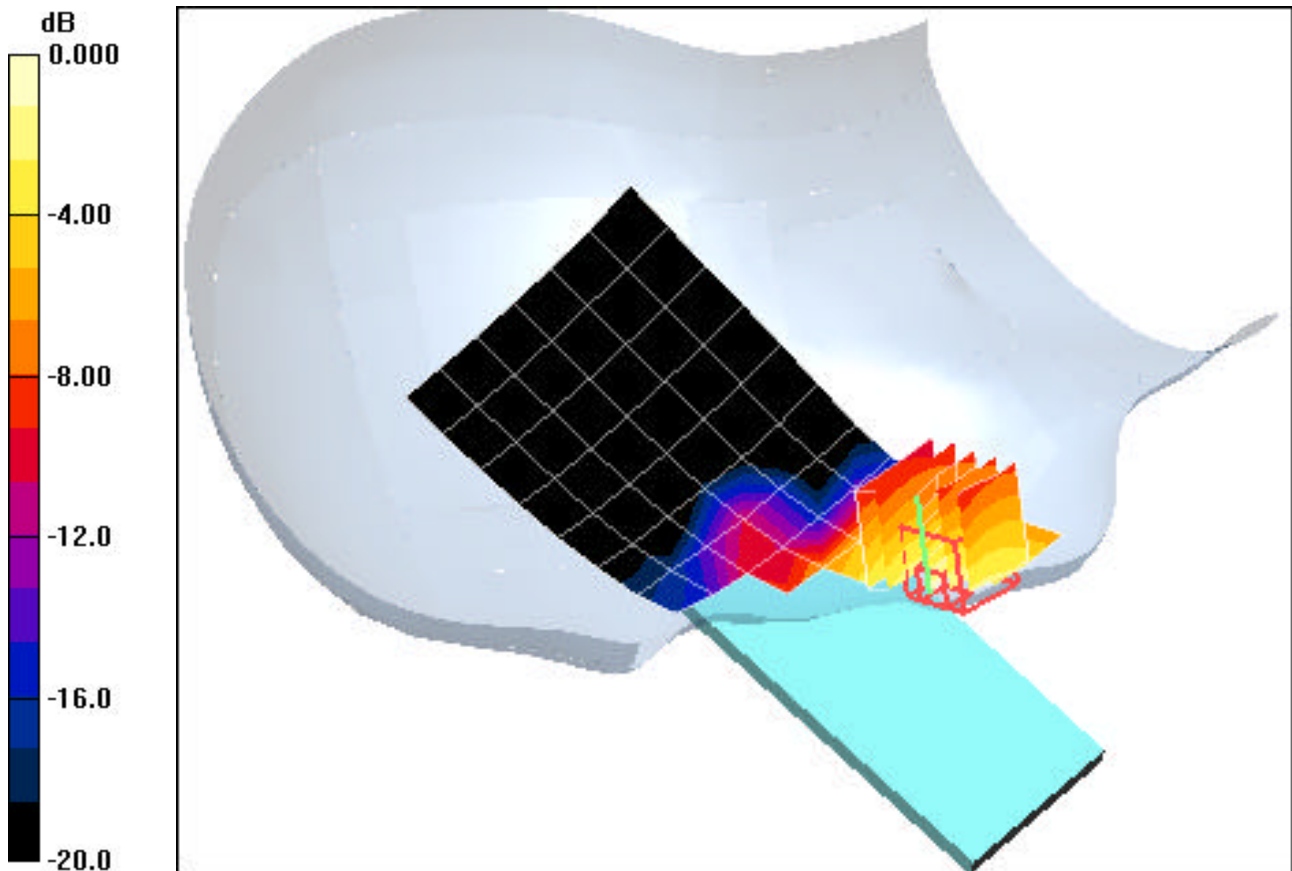
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 2.76 V/m

Peak SAR (extrapolated) = 0.903 W/kg

SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.352 mW/g



0 dB = 0.725mW/g

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Mode: Cellular Right Head, Tilt, Mid.ch.

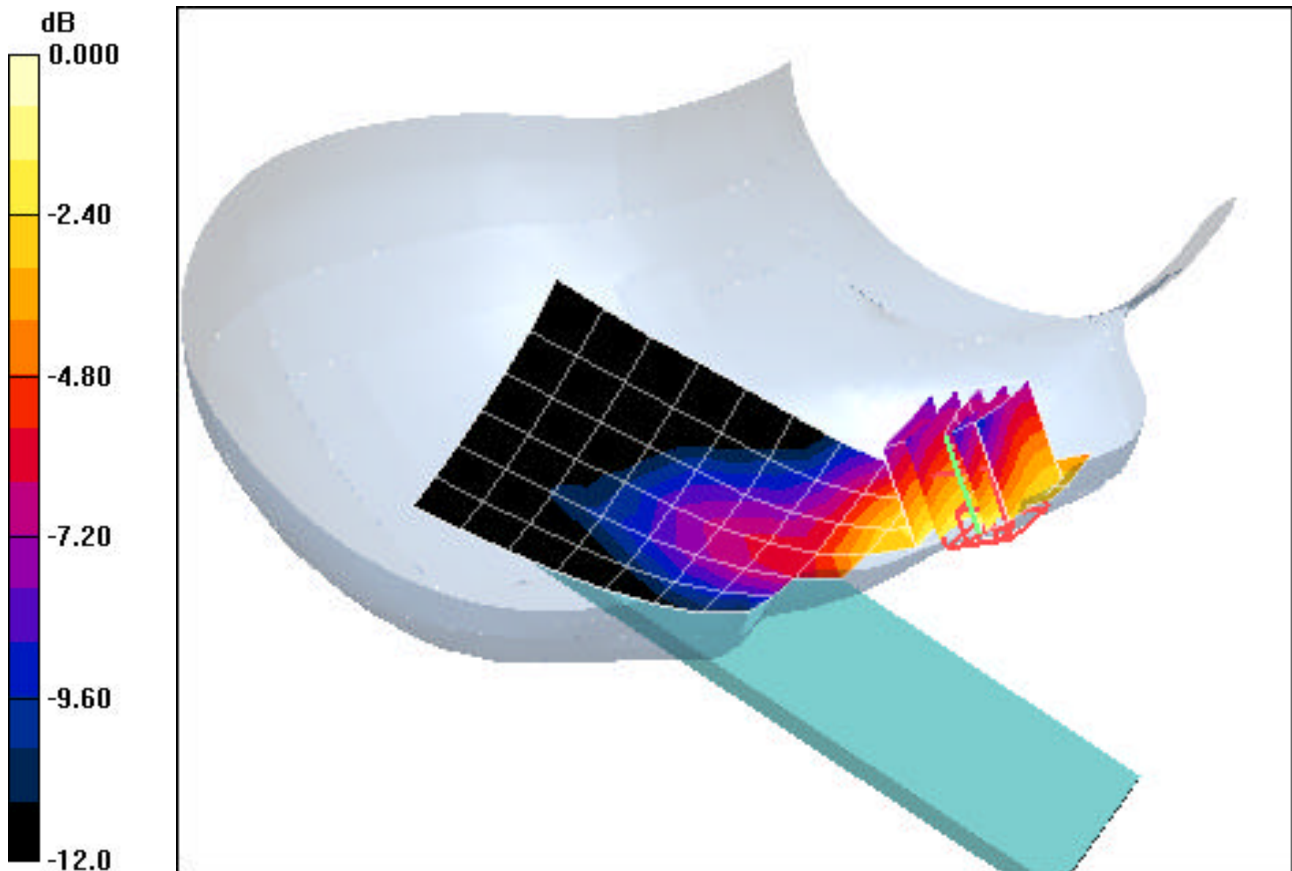
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 3.06 V/m

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.069 mW/g



0 dB = 0.136mW/g

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Medium: 835 Brain ($\sigma = 0.91$ mho/m, $\epsilon_r = 41.78$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 6-05-2007; Ambient Temp: 23°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3550; ConvF(7.98, 7.98, 7.98); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: Cellular Left Head, Touch, Mid.ch.

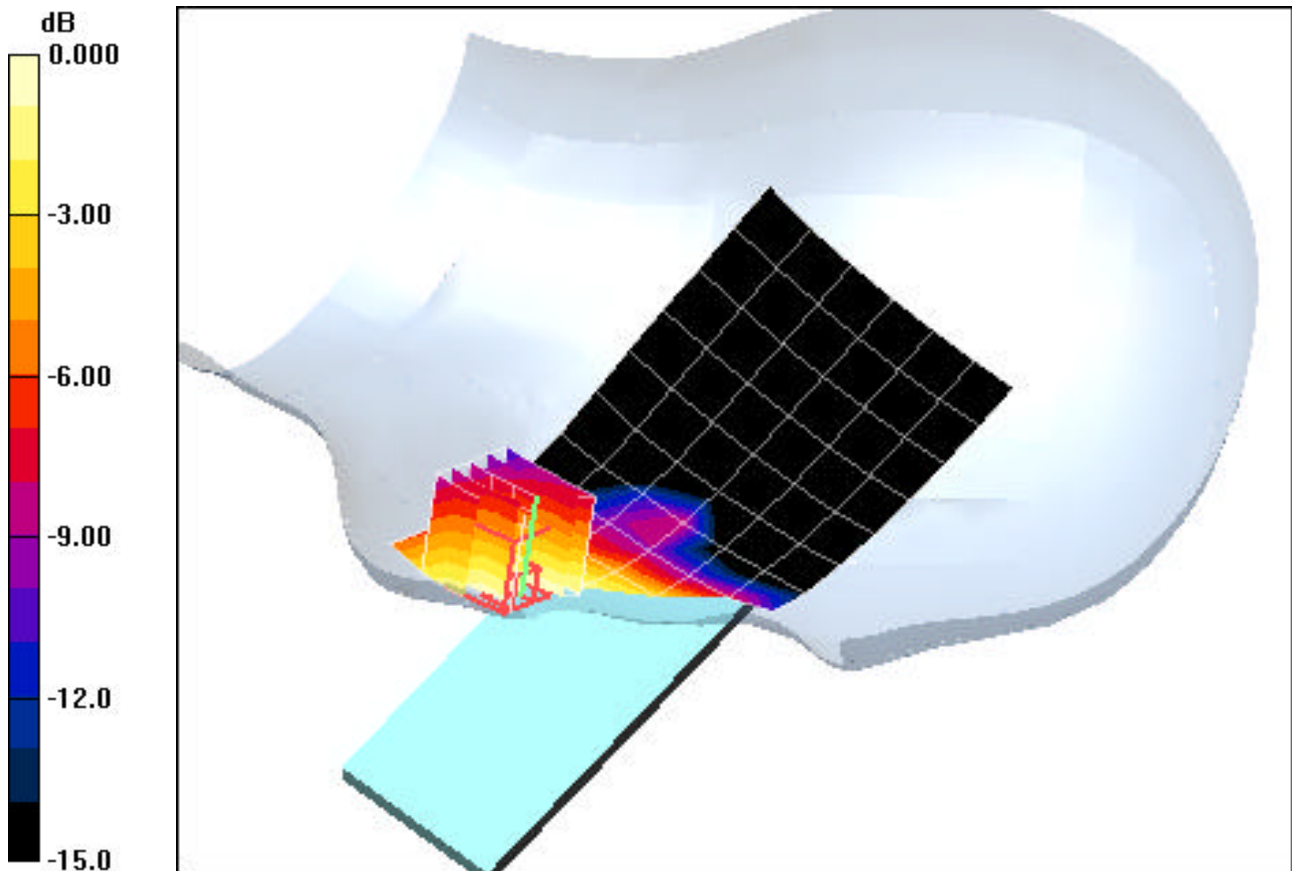
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 2.10 V/m

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.293 mW/g



0 dB = 0.528mW/g

PCTEST ENGINEERING LABORATORY, INC.

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Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.91$ mho/m, $\epsilon_r = 41.78$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 6-05-2007; Ambient Temp: 23°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3550; ConvF(7.98, 7.98, 7.98); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: Cellular Left Head, Tilt, Mid.ch.

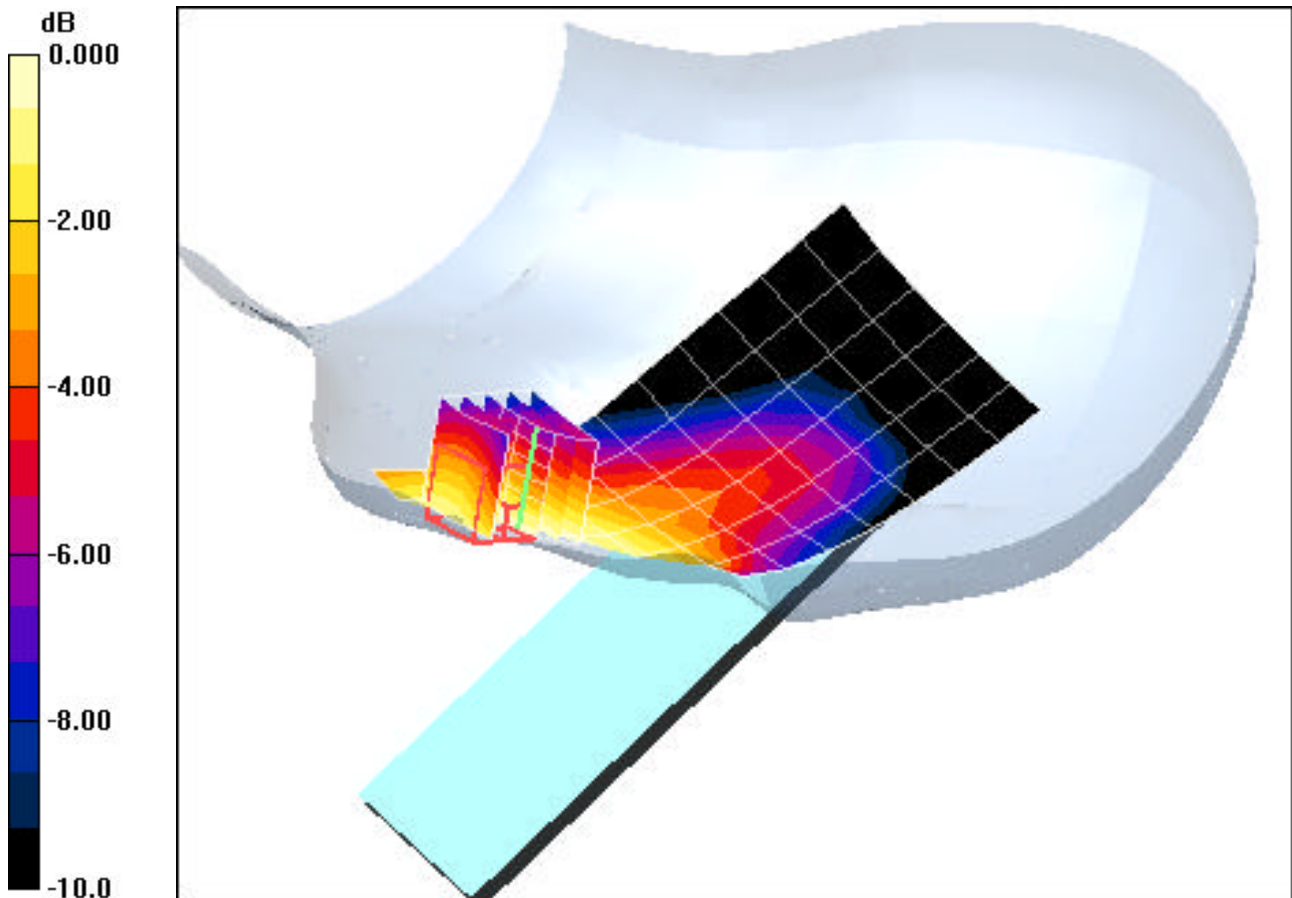
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 3.38 V/m

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.063 mW/g



0 dB = 0.093mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SPH-A513; Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO; Serial: FE-097-A

Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.45$ mho/m, $\epsilon_r = 39.55$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 6-06-2007; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3550; ConvF(6.74, 6.74, 6.74); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: PCS Right Head, Touch, Mid.ch.

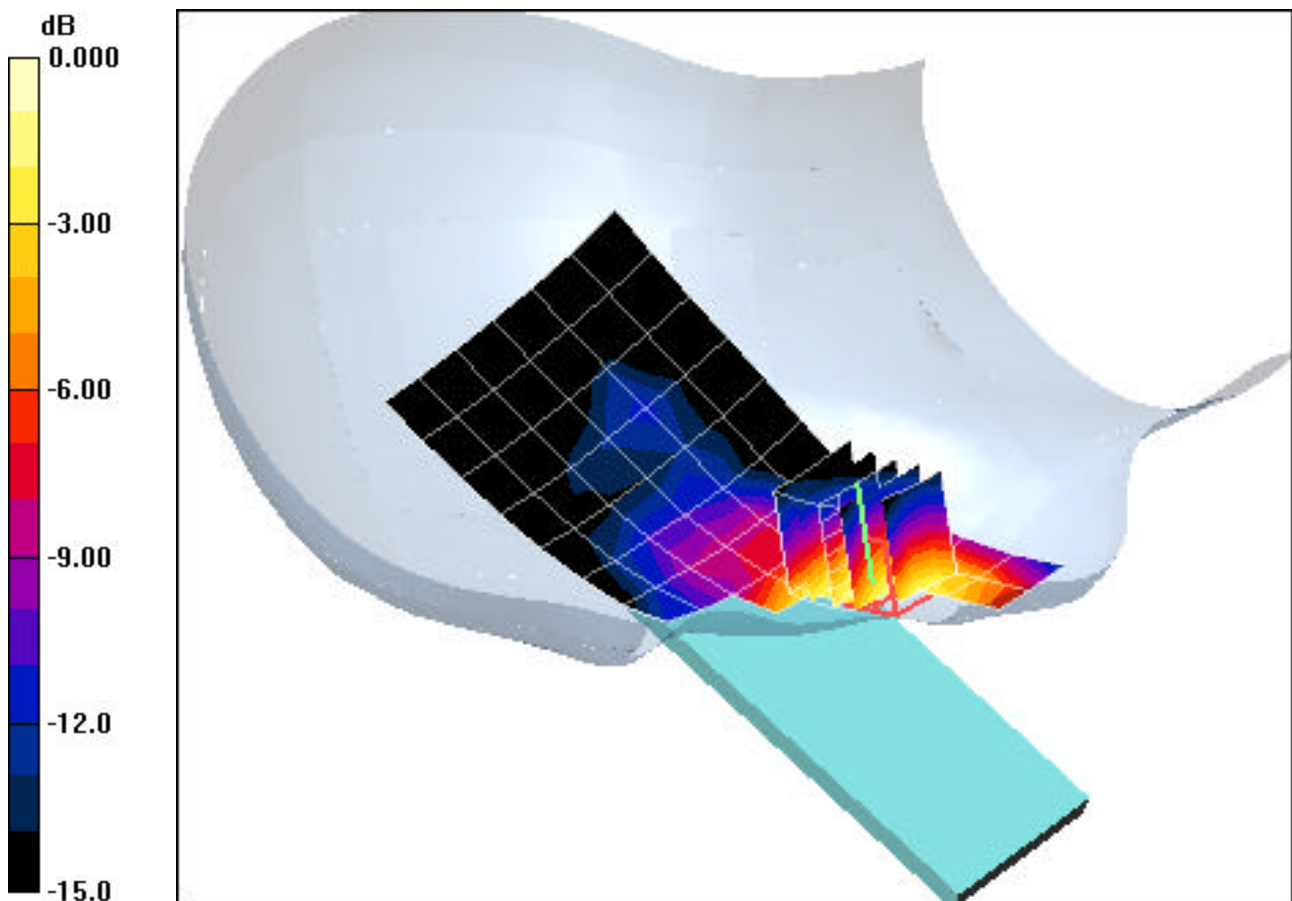
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 4.66 V/m

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.721 mW/g



0 dB = 1.55mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SPH-A513; Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO; Serial: FE-097-A

Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.45$ mho/m, $\epsilon_r = 39.55$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 6-06-2007; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3550; ConvF(6.74, 6.74, 6.74); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: PCS Right Head, Tilt, Mid.ch.

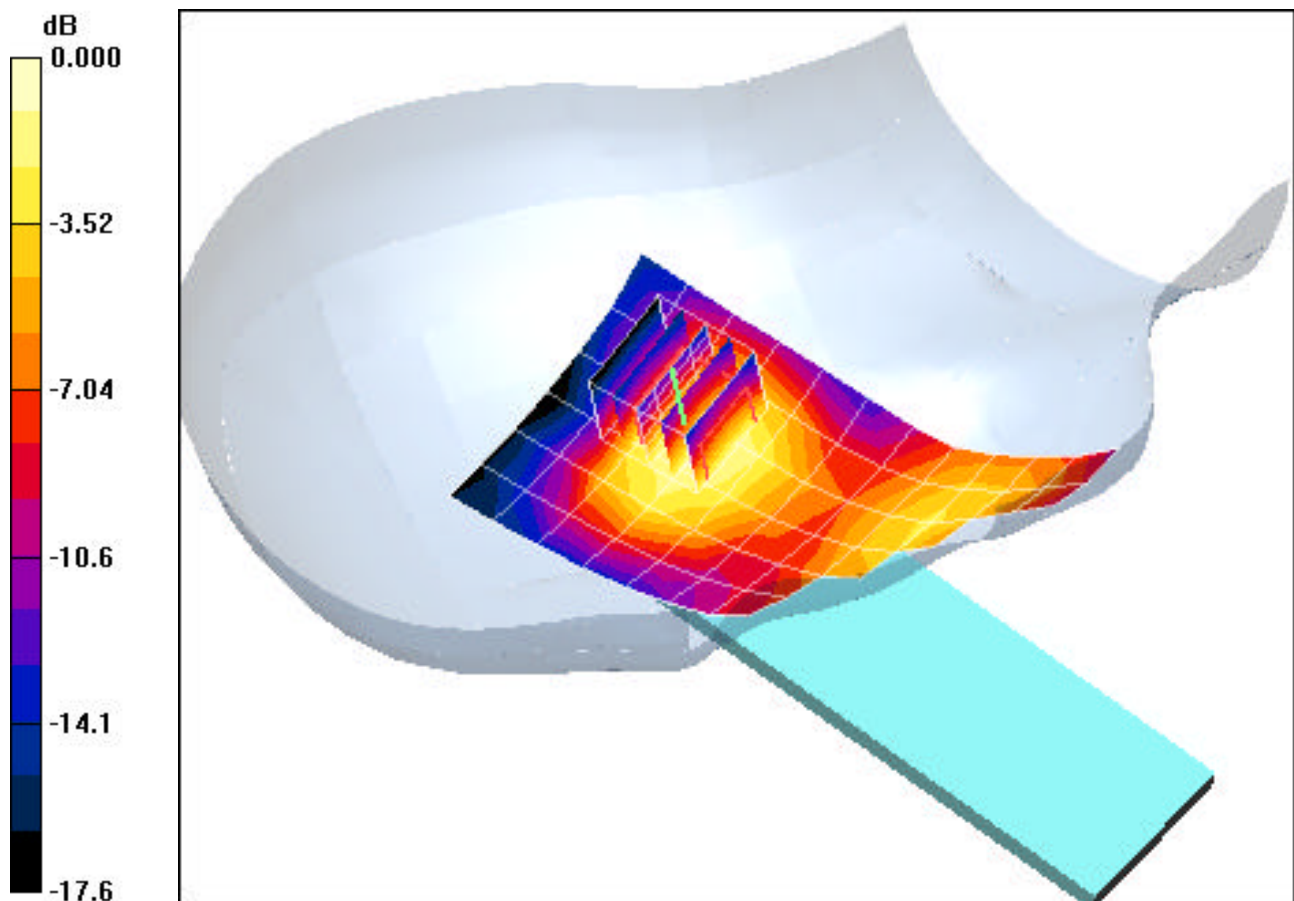
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 11.8 V/m

Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.241 mW/g



0 dB = 0.479mW/g

PCTEST ENGINEERING LABORATORY, INC.

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Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.45$ mho/m, $\epsilon_r = 39.55$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 6-06-2007; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3550; ConvF(6.74, 6.74, 6.74); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode PCS: Left Head, Touch, Mid.ch.

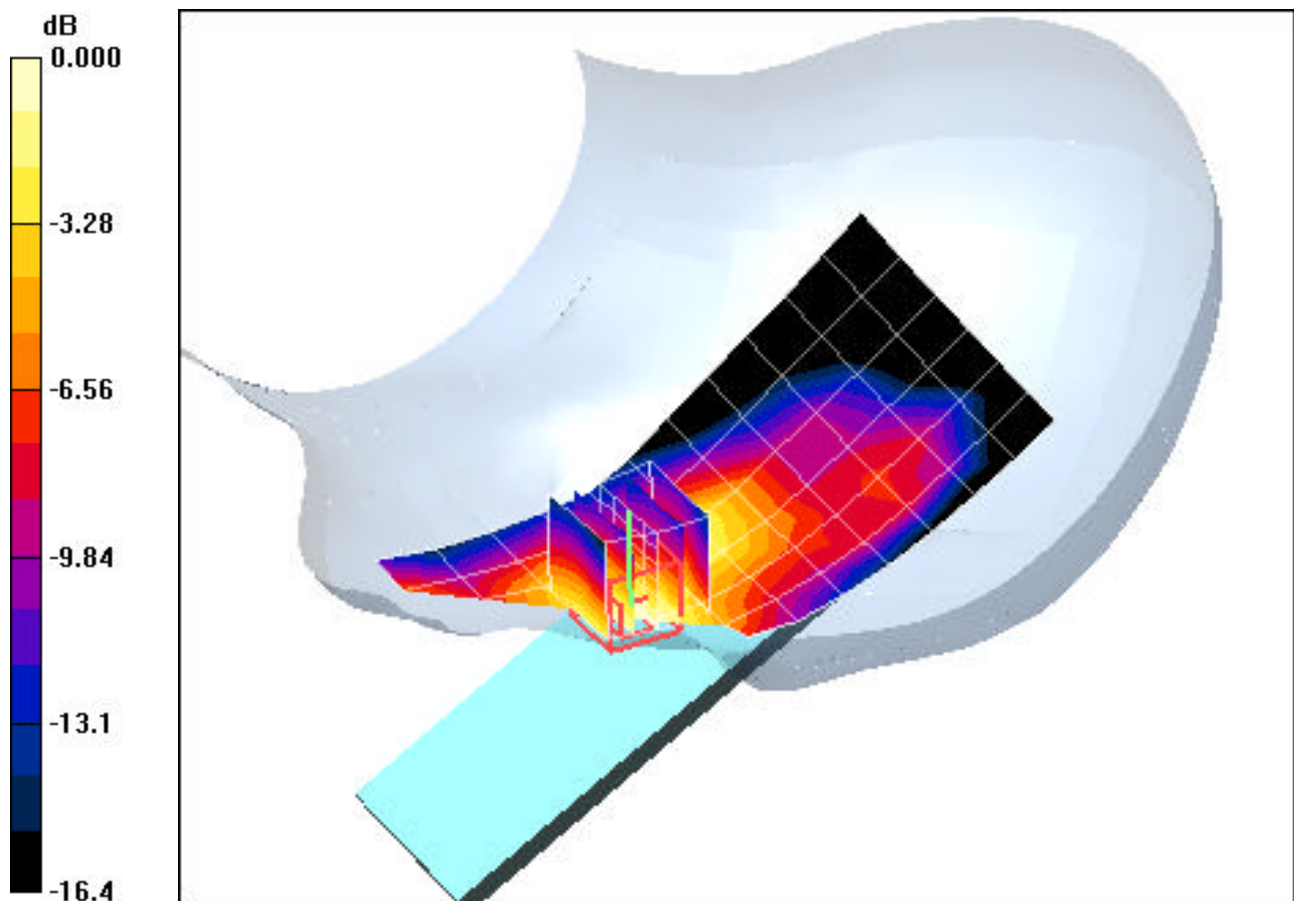
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 6.44 V/m

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.611 mW/g



0 dB = 1.15mW/g

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Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.45$ mho/m, $\epsilon_r = 39.55$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 6-06-2007; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3550; ConvF(6.74, 6.74, 6.74); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: PCS Left Head, Tilt, Mid.ch.

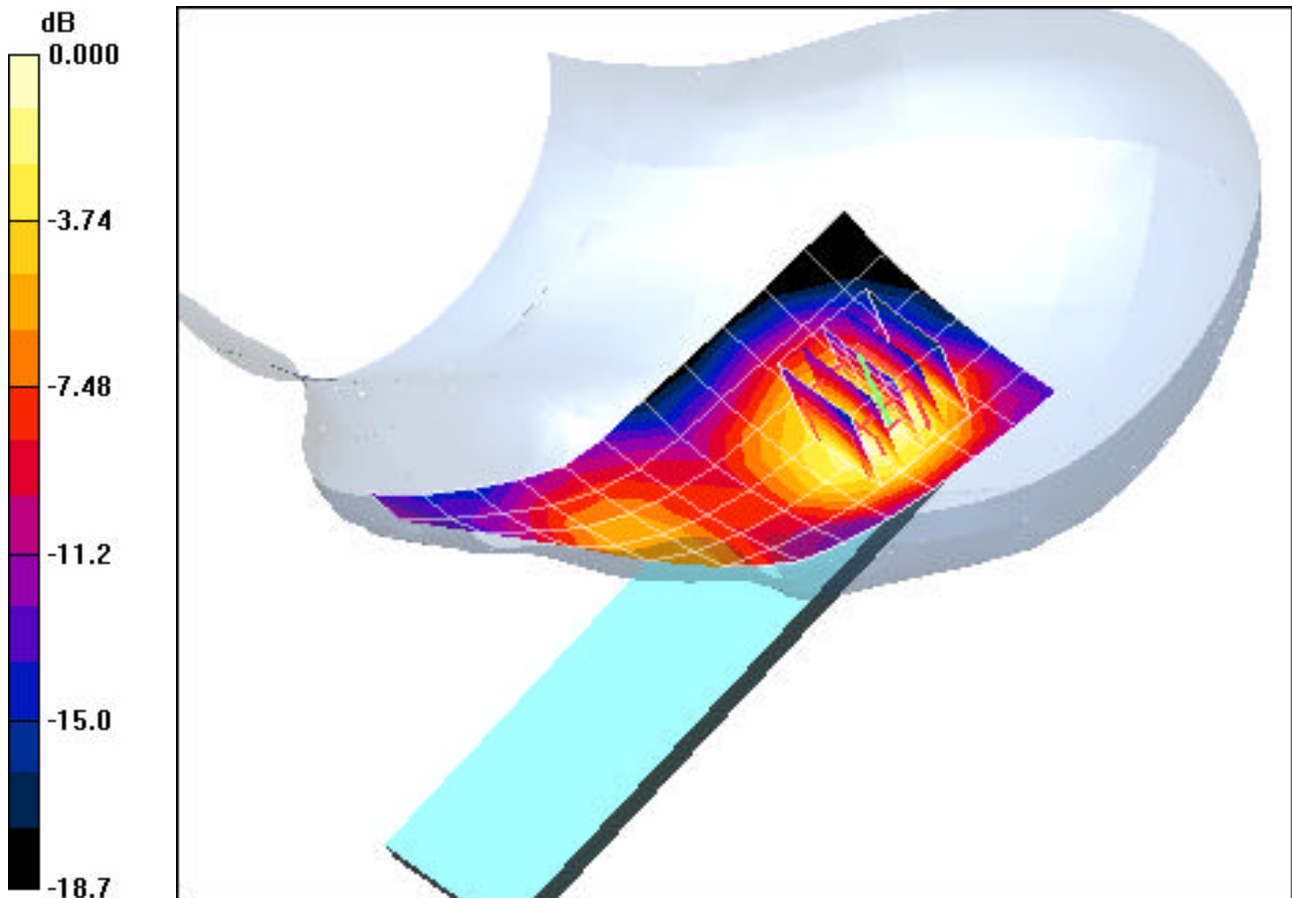
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 13.7 V/m

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.339 mW/g



0 dB = 0.691mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SPH-A513; Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO; SN: FE-097-A

Communication System: Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ($\sigma = 0.97$ mho/m, $\epsilon_r = 54.88$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Date: 6-05-2007; Ambient Temp: 23°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3550; ConvF(7.87, 7.87, 7.87); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: Cellular CDMA, Body SAR, Mid.ch, Standard Battery

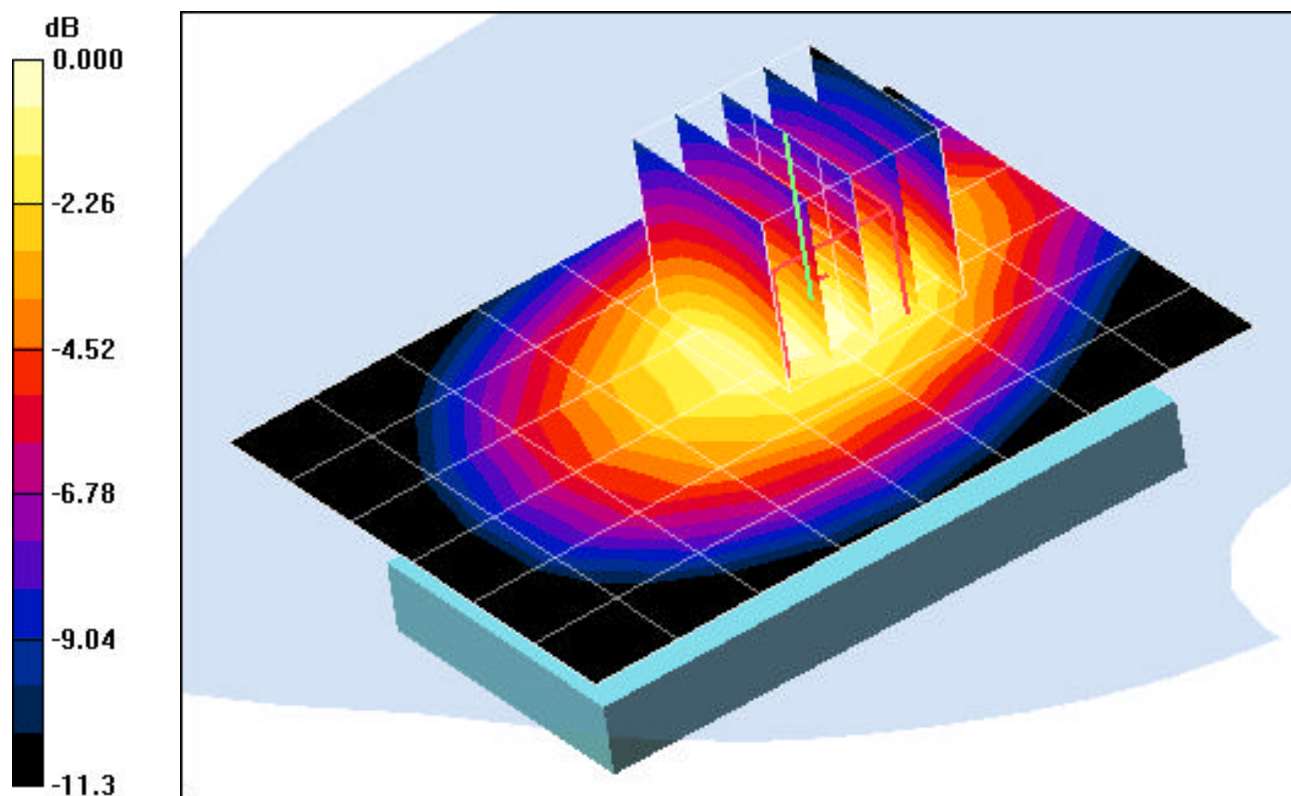
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 16.3 V/m

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.755 mW/g; SAR(10 g) = 0.527 mW/g



0 dB = 0.860mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: SPH-A513; Type: Cellular/PCS CDMA Phone with Bluetooth and EVDO; SN: FE-097-A

Communication System: PCS CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ($\sigma = 1.58$ mho/m, $\epsilon_r = 54.19$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 6-06-2007; Ambient Temp: 22.5°C; Tissue Temp: 21°C

Probe: EX3DV4 - SN3550; ConvF(6.61, 6.61, 6.61); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: PCS CDMA, Body SAR, High.ch, Standard Battery

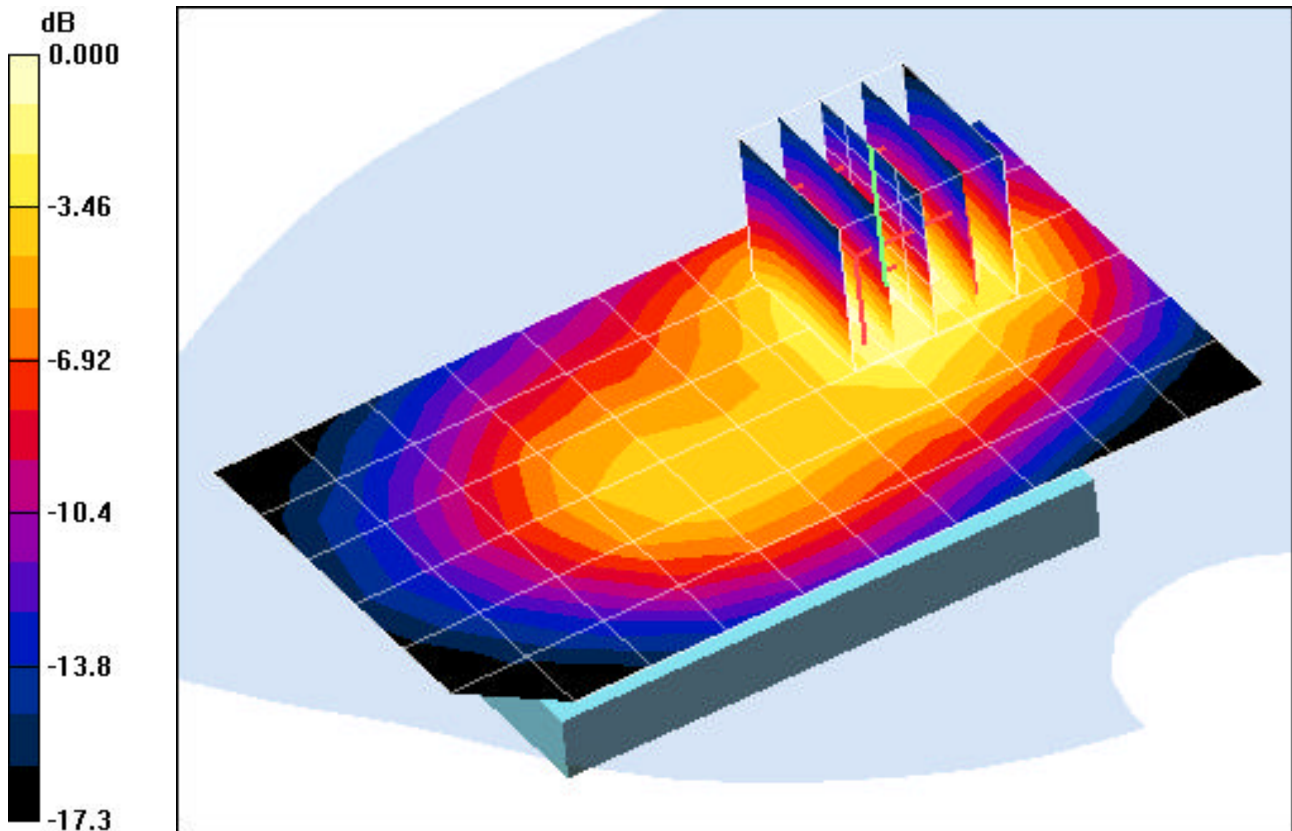
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 25.8 V/m

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.810 mW/g



0 dB = 1.77mW/g

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Phantom section: Right Section

Test Date: 6-05-2007; Ambient Temp: 23°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3550; ConvF(7.98, 7.98, 7.98); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

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Mode: Cellular Right Head, Touch, Mid.ch.

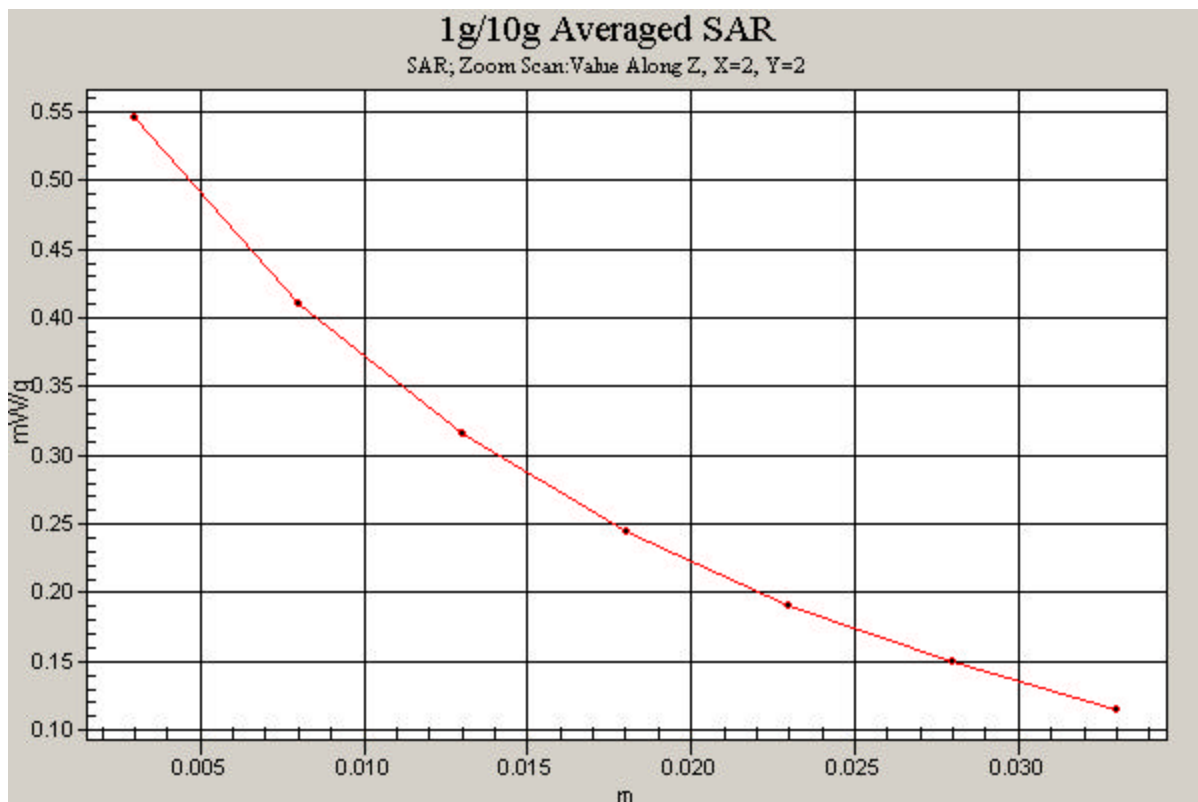
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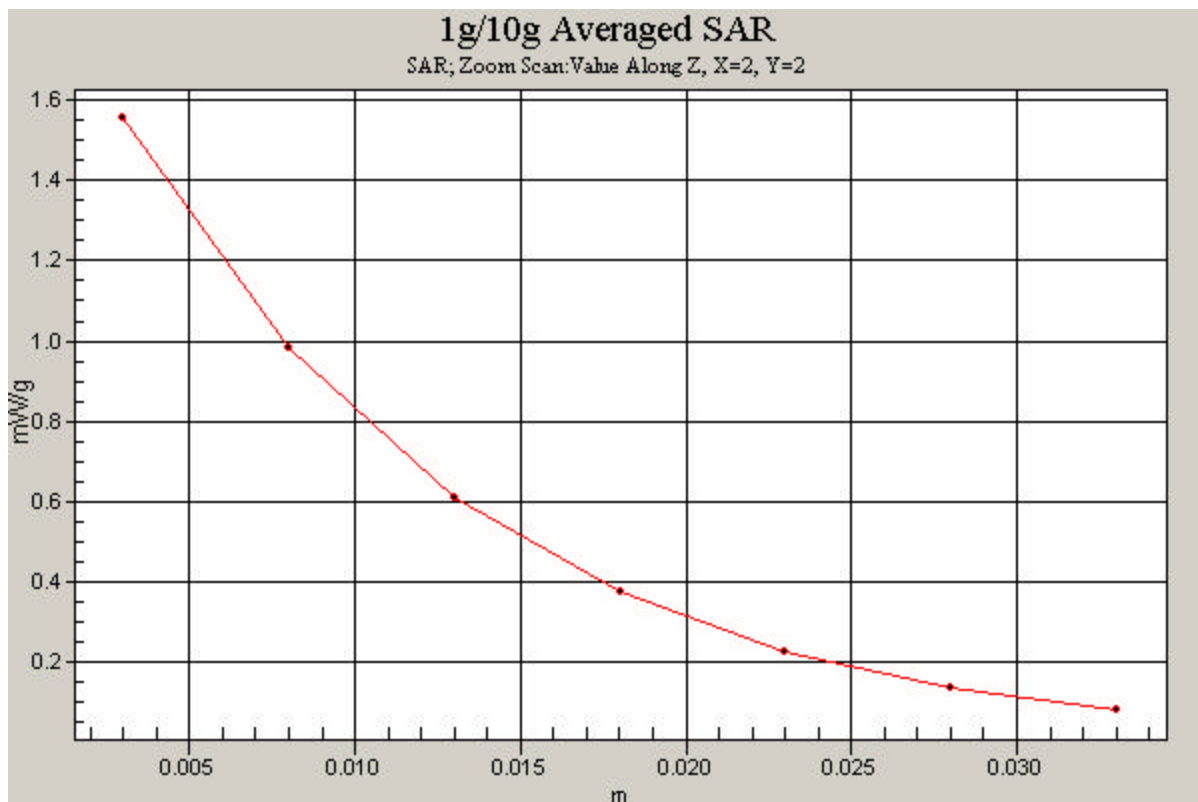
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Reference Value = 4.66 V/m

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.721 mW/g



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Medium: 835 Muscle ($\sigma = 0.97$ mho/m, $r = 54.88$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 6-05-2007; Ambient Temp: 23°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3550; ConvF(7.87, 7.87, 7.87); Calibrated: 1/22/2007

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 9/4/2006

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

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Mode: Cellular CDMA, Body SAR, Mid.ch, Standard Battery

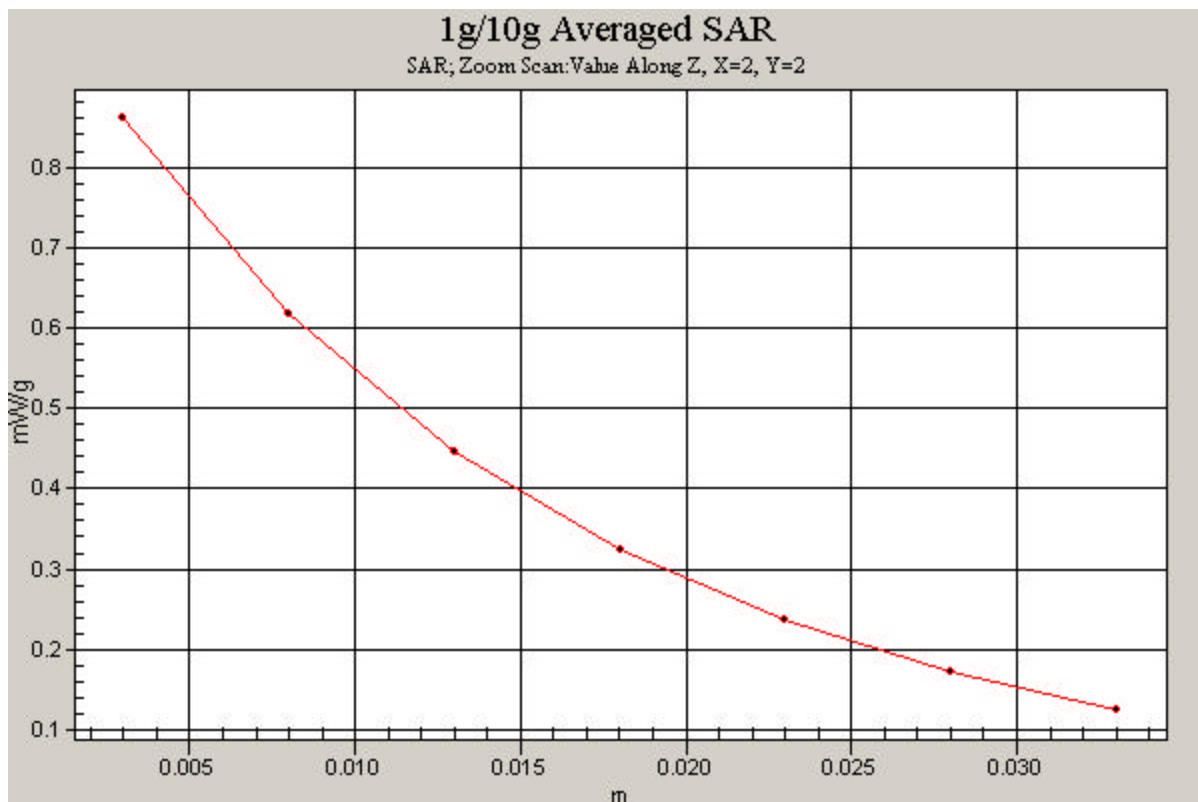
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 16.3 V/m

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Sensor-Surface: 3mm (Mechanical Surface Detection)

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Mode: PCS CDMA, Body SAR, High.ch, Standard Battery

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

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

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