

ATTACHMENT O – SAR TEST PLOTS (2 of 3)

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 25
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

Communication System: PCS 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Left touch 25/Area Scan (51x101x1): Measurement grid: $\Delta x = 15\text{mm}$, $\Delta y = 15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.31 mW/g

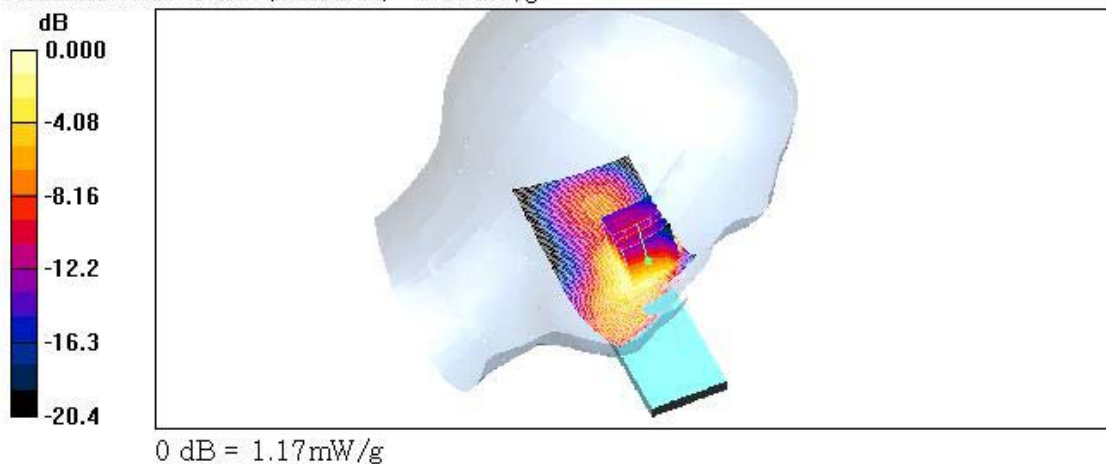
Left touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8\text{mm}$, $\Delta y = 8\text{mm}$, $\Delta z = 5\text{mm}$

Reference Value = 25.7 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.631 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.17 mW/g



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 600
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

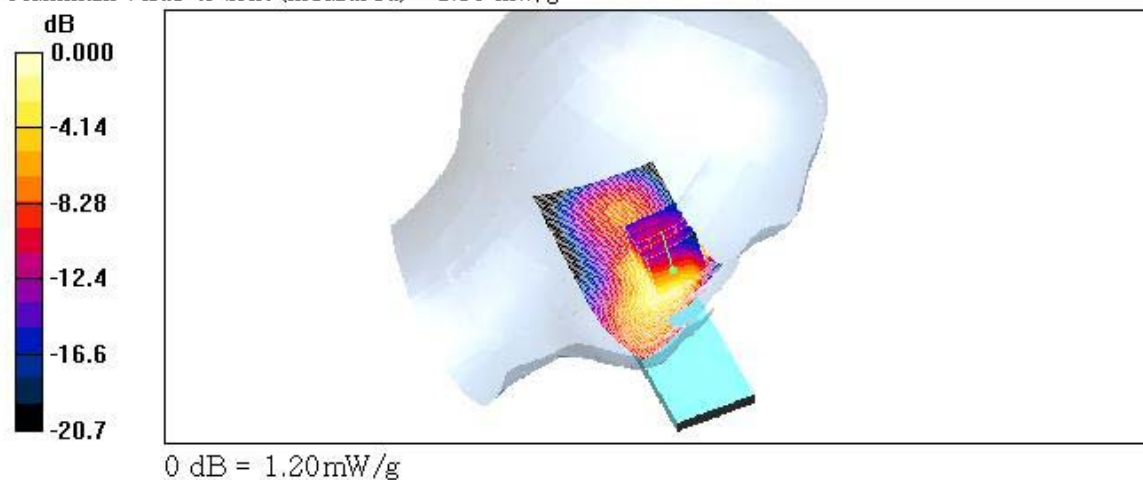
Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Left touch 600/Area Scan (51x101x1): Measurement grid: $\Delta x = 15\text{mm}$, $\Delta y = 15\text{mm}$
Maximum value of SAR (interpolated) = 1.36 mW/g

Left touch 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8\text{mm}$, $\Delta y = 8\text{mm}$, $\Delta z = 5\text{mm}$
Reference Value = 25.2 V/m; Power Drift = -0.045 dB
Peak SAR (extrapolated) = 1.79 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.641 mW/g
Maximum value of SAR (measured) = 1.20 mW/g



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 1175
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

Communication System: PCS 1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Left touch 1175/Area Scan (51x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.54 mW/g

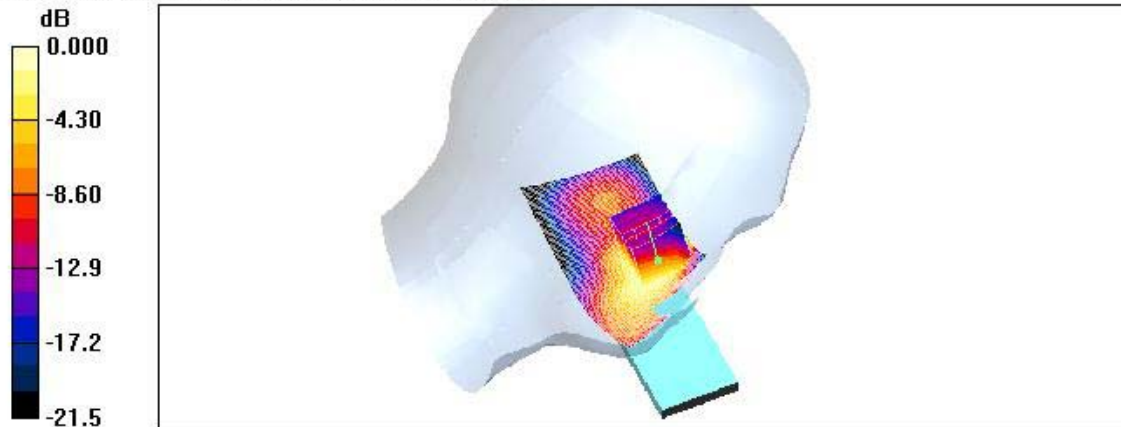
Left touch 1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

Reference Value = 24.9 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.710 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.36 mW/g



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 25
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

Communication System: PCS 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

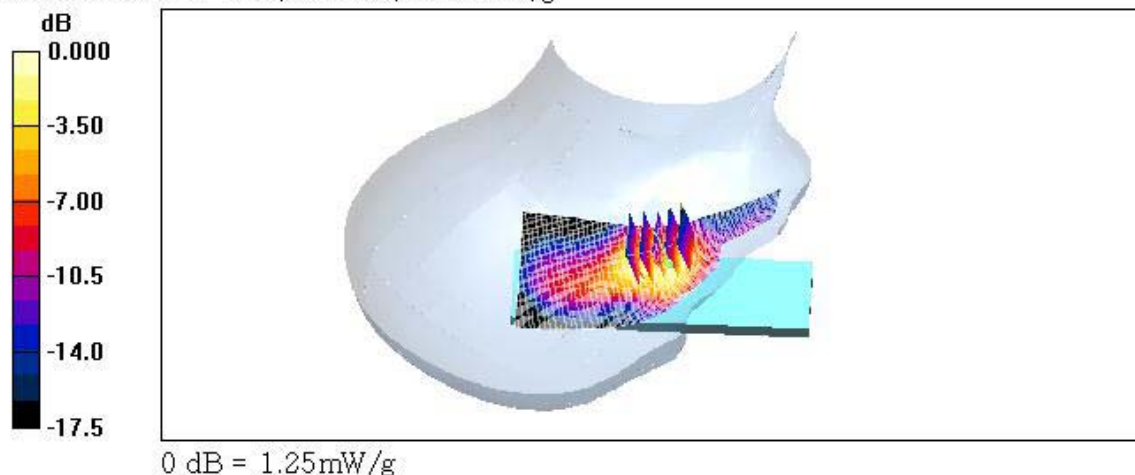
- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 25/Area Scan (51x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.18 mW/g

Right touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm
Reference Value = 21.8 V/m; Power Drift = -0.184 dB
Peak SAR (extrapolated) = 1.94 W/kg
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.612 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.25 mW/g



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 600
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

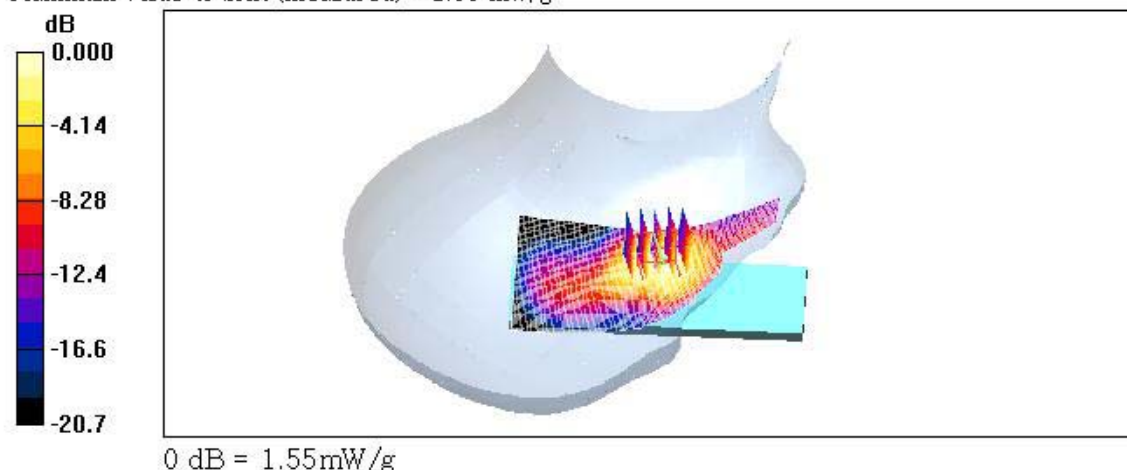
Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 600/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.54 mW/g

Right touch 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 22.3 V/m; Power Drift = 0.059 dB
Peak SAR (extrapolated) = 2.45 W/kg
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.714 mW/g
Maximum value of SAR (measured) = 1.55 mW/g



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.

Mode : PCS1900 / Antenna : In / Channel : 1175

Liquid Temperature : 21.6 °C

Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

Communication System: PCS 1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30

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

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 1175/Area Scan (51x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.44 mW/g

Right touch 1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

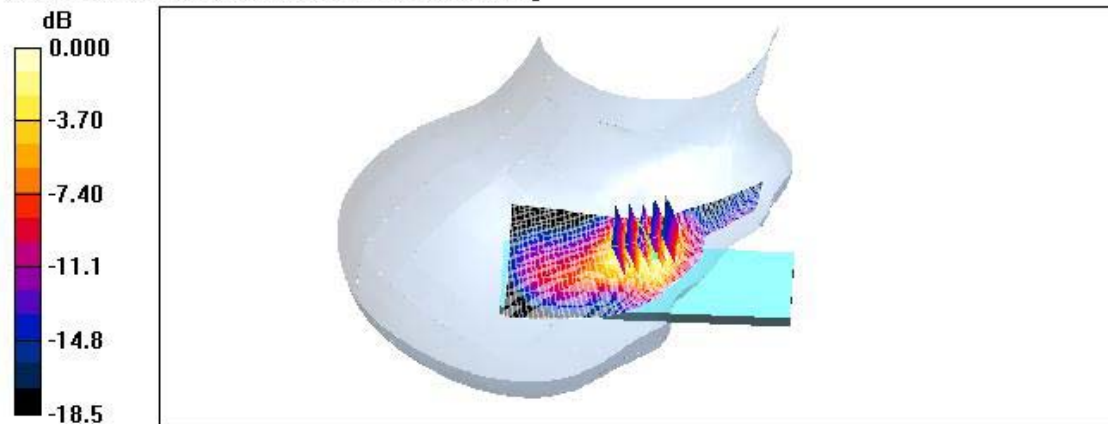
Reference Value = 20.4 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 1.4 mW/g; SAR(10 g) = 0.711 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.54 mW/g



0 dB = 1.54mW/g

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.

Mode : PCS1900 / Antenna : In / Channel : 1175(E-battery)

Liquid Temperature : 21.6 °C

Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

Communication System: PCS 1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.75 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30

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

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 1175/Area Scan (51x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.39 mW/g

Right touch 1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

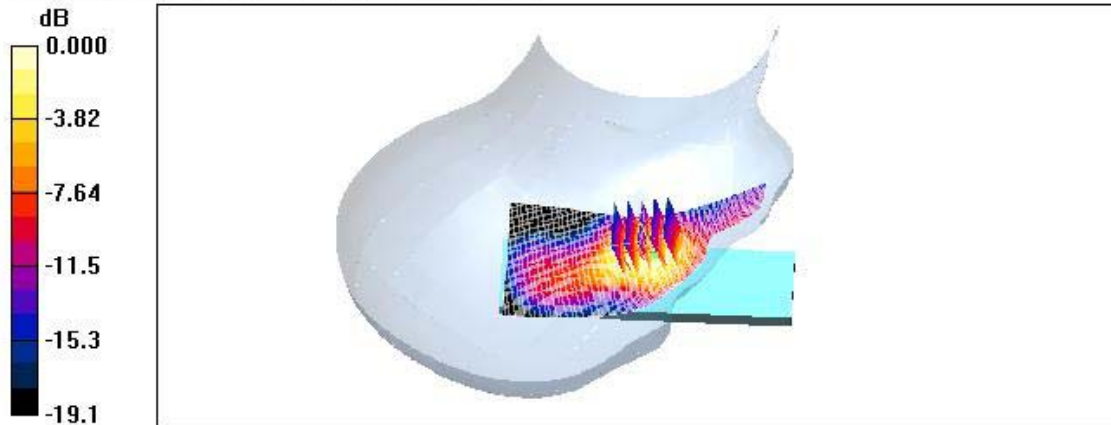
Reference Value = 22.6 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.693 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.45 mW/g



0 dB = 1.45mW/g

Test Laboratory: HCT

MODEL: PN-320

Company : PANTECH&CURITEL COMMUNICATIONS, INC.

Mode : PCS1900 / Channel : 1175 (Bluetooth on)

Liquid Temperature : 21.7 °C

Date Tested : April 17, 2006

DUT: PN-320; Type: Folder; Serial: #1**Program Name: PN-320**

Communication System: PCS 1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 1175/Area Scan (51x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.51 mW/g

Right touch 1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

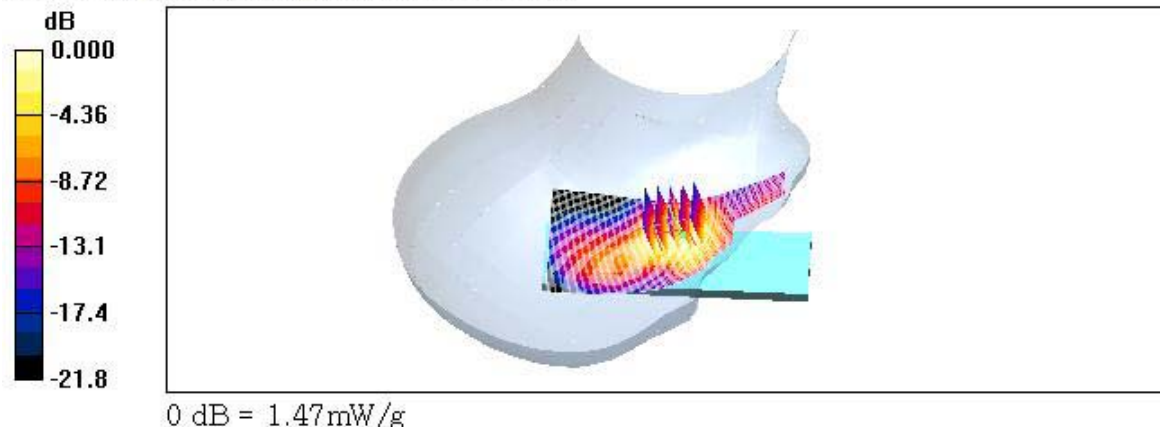
Reference Value = 23.0 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 2.97 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.694 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.47 mW/g



Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 600
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

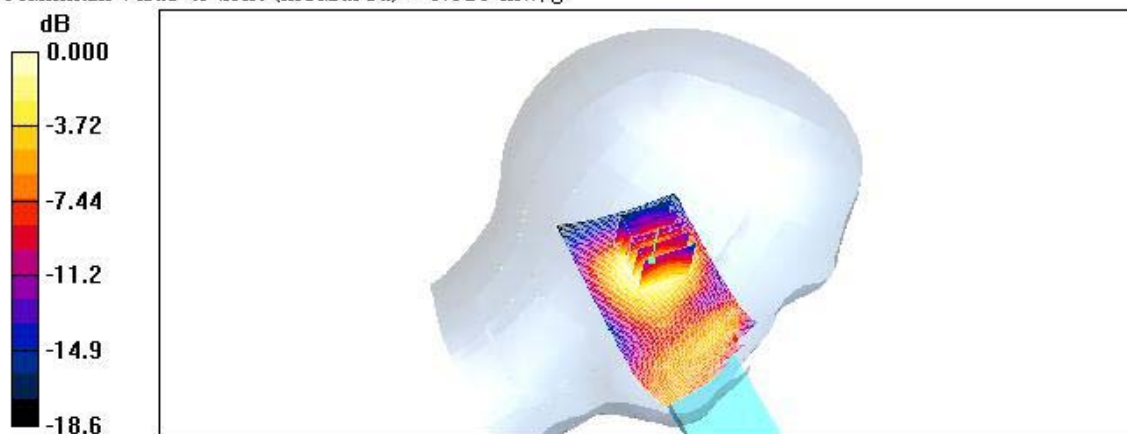
Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Left tilt 600/Area Scan (51x101x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm
Maximum value of SAR (interpolated) = 0.382 mW/g

Left tilt 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm
Reference Value = 7.43 V/m; Power Drift = -0.102 dB
Peak SAR (extrapolated) = 0.429 W/kg
SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.310 mW/g



0 dB = 0.310mW/g

Test Laboratory: HCT

Company : PANTECH&CURITEL COMMUNICATIONS, INC.
Mode : PCS1900 / Antenna : In / Channel : 600
Liquid Temperature : 21.6 °C
Date Tested : April 04, 2006

DUT: PN-320; Type: Folder; Serial: #1

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: SAM 1800/1900 MHz; Type: SAM

Right tilt 600/Area Scan (51x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (interpolated) = 0.407 mW/g

Right tilt 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 7.32 V/m; Power Drift = -0.002 dB
Peak SAR (extrapolated) = 0.512 W/kg
SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 0.362 mW/g

