

## **Appendix B: SAR distribution printout**

Date/Time: 11/17/03 19:56:14

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC AMPS Ch991 only, RIGHT Cheek & Tilt, Thin Battery, 11-17-03.da4](#)

## KX444 AMPS Ch991 only, RIGHT Cheek & Tilt, Thin Battery

DUT: K7 PTT FCC

Communication System: AMPS, Frequency: 824.04 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.886$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Right Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**AMPS Ch991 RC/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.7 V/m

Power Drift = -0.06 dB

Maximum value of SAR = 1.2 mW/g

**AMPS Ch991 RC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

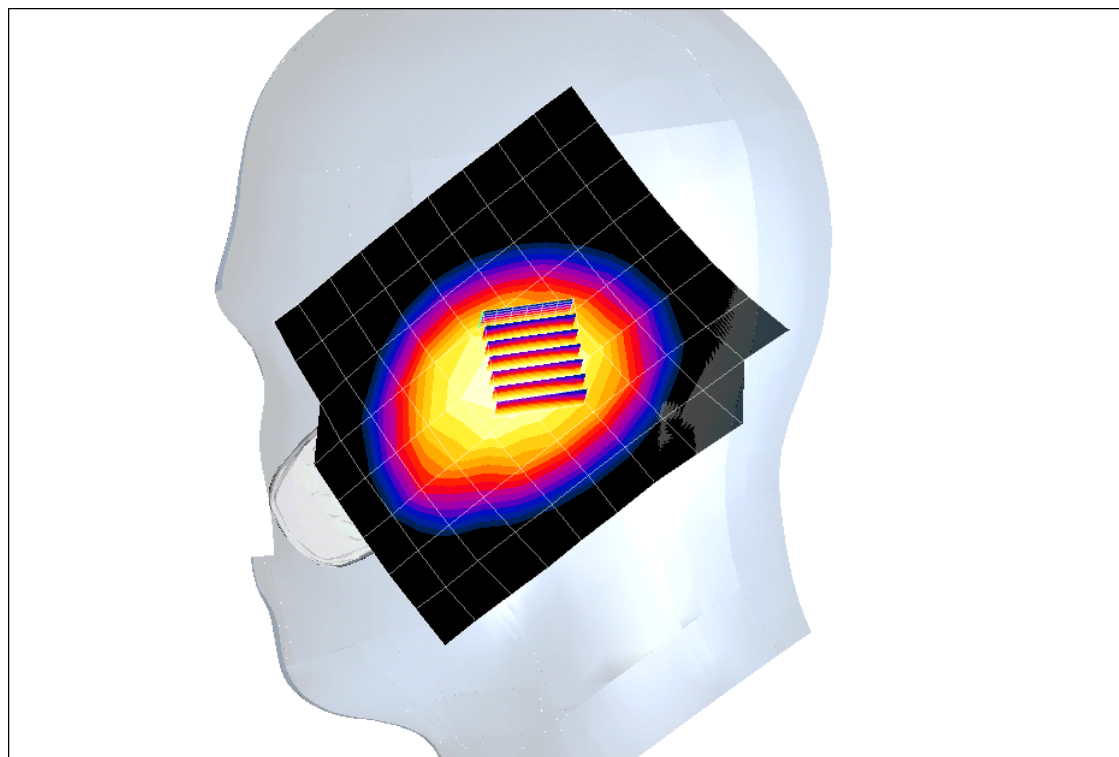
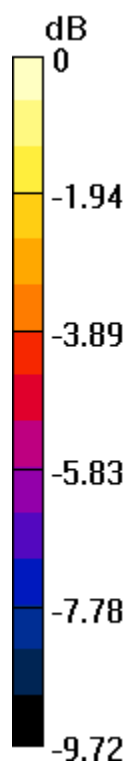
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.905 mW/g

Reference Value = 37.7 V/m

Power Drift = -0.06 dB

Maximum value of SAR = 1.24 mW/g



0 dB = 1.24mW/g

Date/Time: 11/16/03 22:47:17

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC AMPS Left Cheek with Thin Battery and Backpack Clip, 11-16-03.da4](#)

## KX444, AMPS Ch991 Left Cheek with Thin Battery and Backpack Clip

DUT: KX444

Communication System: AMPS, Frequency: 824.04 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.911$  mho/m,  $\epsilon_r = 42.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Left Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**AMPS Ch991 LC/Area Scan (9x11x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 37.1 V/m

Power Drift = 0.002 dB

Maximum value of SAR = 1.4 mW/g

**AMPS Ch991 LC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

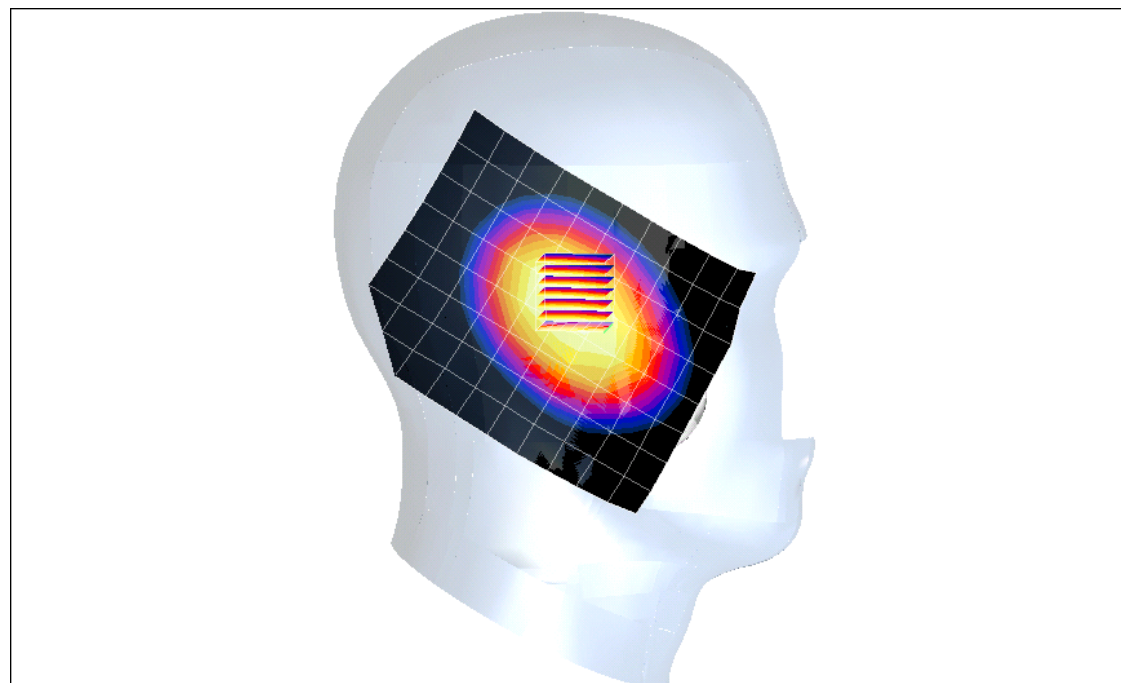
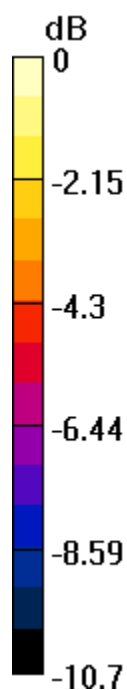
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.949 mW/g

Reference Value = 37.1 V/m

Power Drift = 0.002 dB

Maximum value of SAR = 1.41 mW/g



0 dB = 1.41mW/g

Date/Time: 11/16/03 23:20:45

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC AMPS Left Tilt with Thin Battery and Backpack Clip, 11-16-03.da4](#)

## KX444 AMPS Left Tilt with Thin Battery and Backpack Clip

DUT: KX444

Communication System: AMPS, Frequency: 824.04 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.911$  mho/m,  $\epsilon_r = 42.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Left Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

AMPS Ch991 LC/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 35 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 1.3 mW/g

AMPS Ch991 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

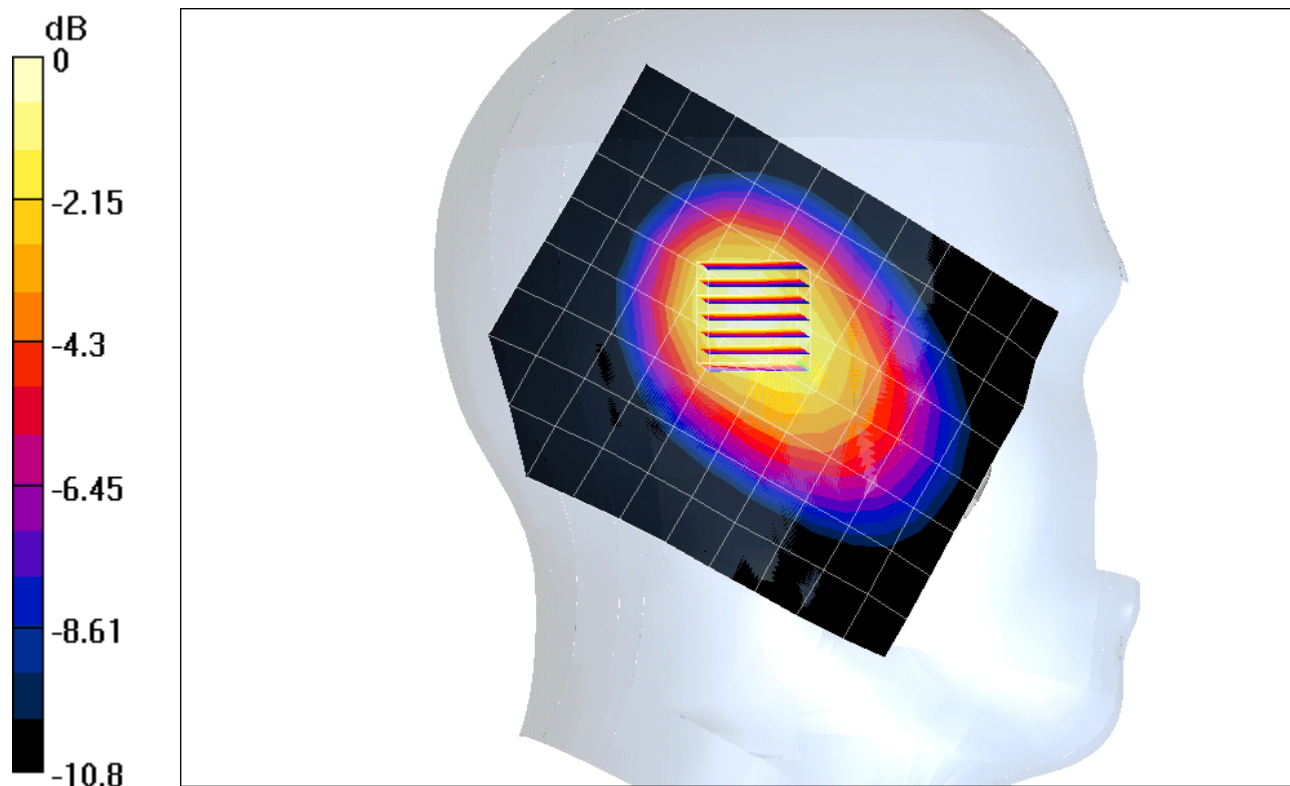
Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.828 mW/g

Reference Value = 35 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 1.32 mW/g



Date/Time: 11/17/03 23:06:41

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC AMPS Ch991 only, RIGHT Cheek & Tilt, Thin Battery & Backpack, 11-17-03.da4](#)**KX444 AMPS Ch991 only, RIGHT Cheek & Tilt, Thin Battery & Backpack**

DUT: K7 PTT FCC

Communication System: AMPS, Frequency: 824.04 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.886$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Right Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**AMPS Ch991 RT/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 34.2 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 1.08 mW/g

**AMPS Ch991 RT/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

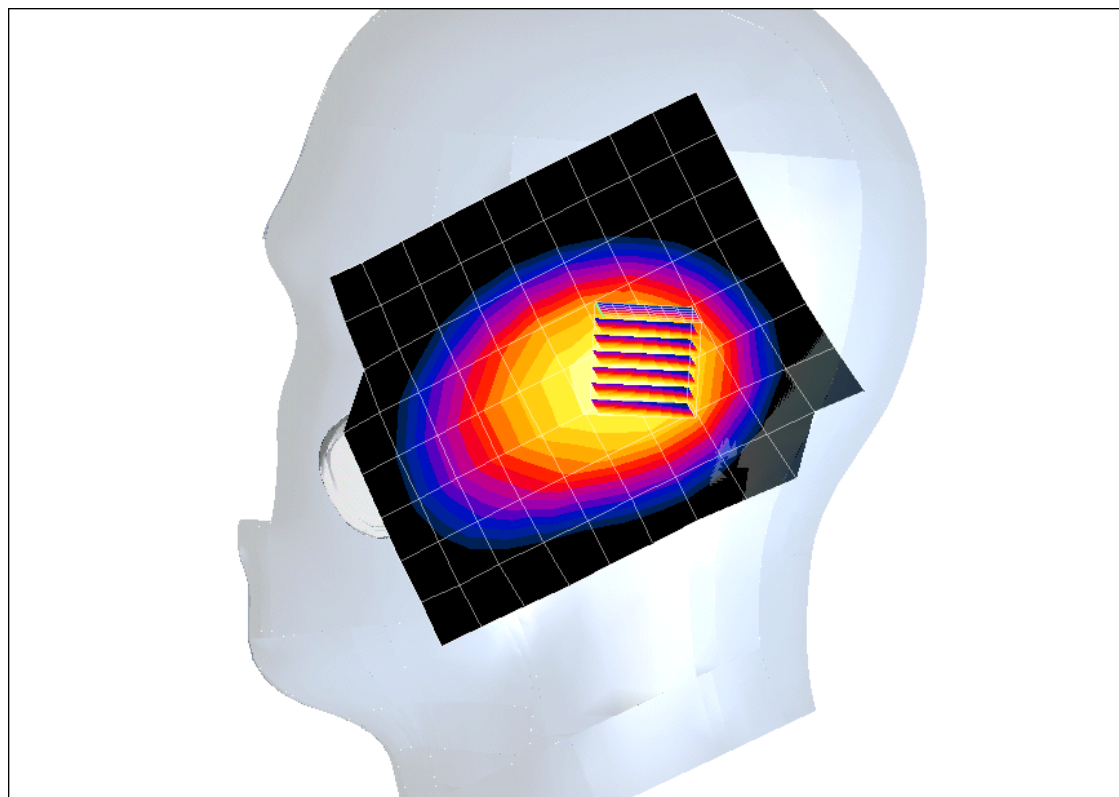
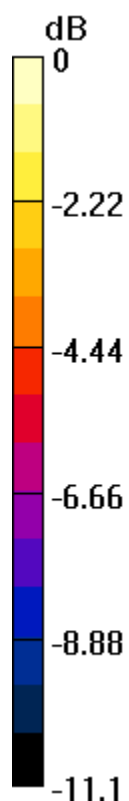
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.765 mW/g

Reference Value = 34.2 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 1.18 mW/g



0 dB = 1.18mW/g

Date/Time: 11/19/03 21:37:23

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC AMPS Ch383 only, Flat Brain Air \(1inch\) Face Up, Thick Battery, 11-19-03.da4](#)

## KX444 AMPS Ch383, Flat, Air Gap 1inch, Face Up, Standard Battery

DUT: KX444

Communication System: AMPS, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**AMPS Ch383 Flat/Area Scan (11x14x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 22.8 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.418 mW/g

**AMPS Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

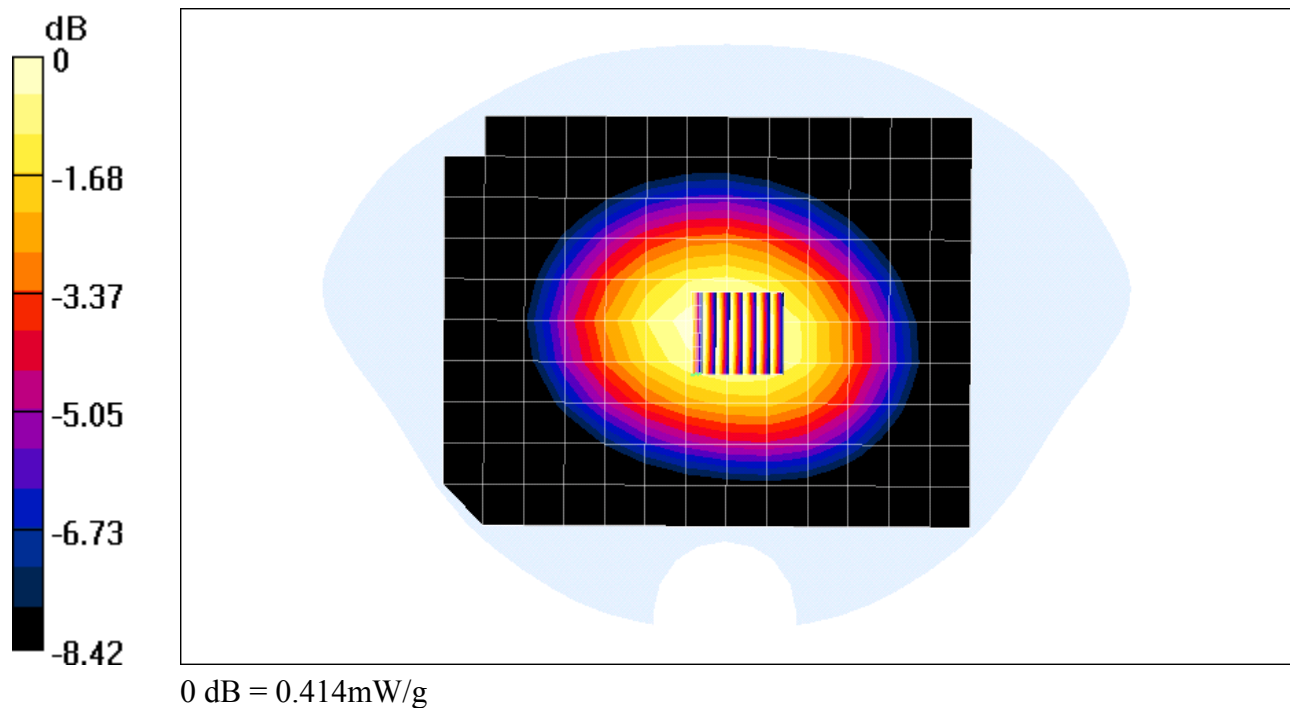
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.288 mW/g

Reference Value = 22.8 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.414 mW/g



Date/Time: 11/19/03 22:19:07

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC AMPS Ch383 only, Flat Brain Air \(1inch\) Face Up, Thick Battery, Backpack Clip 11-19-03.da4](#)

## KX444 AMPS Ch383, Fla, Air Gap 1inch, Face Up, Standard Battery w/ Backpack Clip

DUT: KX444

Communication System: AMPS, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

AMPS Ch383 Flat/Area Scan (11x14x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.391 mW/g

AMPS Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

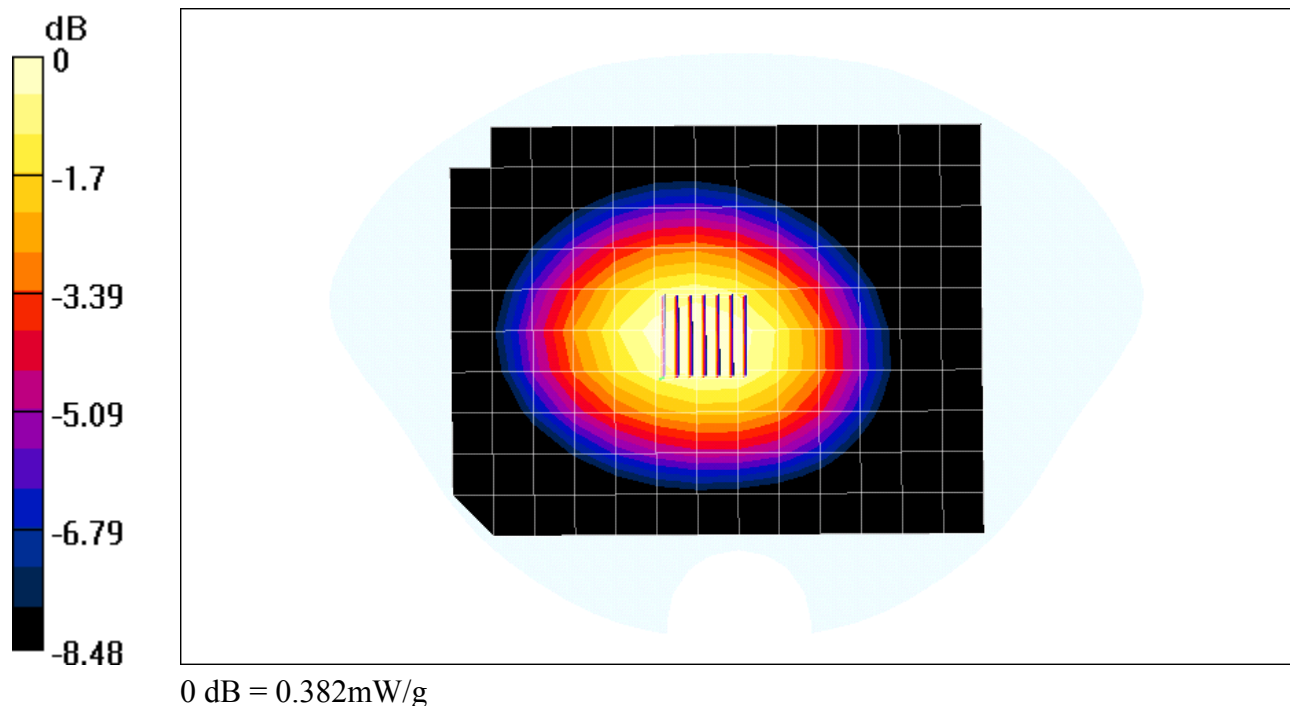
Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.268 mW/g

Reference Value = 21.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.382 mW/g



Date/Time: 11/19/03 20:53:39

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC AMPS Ch383 only, Flat Brain Air \(1inch\) Face Up, Thin Battery, 11-19-03.da4](#)

## KX444 AMPS Ch383, Flat, Air Gap 1inch, Face Up, Thin Battery

DUT: KX444

Communication System: AMPS, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**AMPS Ch383 Flat/Area Scan (11x14x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 23.1 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.423 mW/g

**AMPS Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

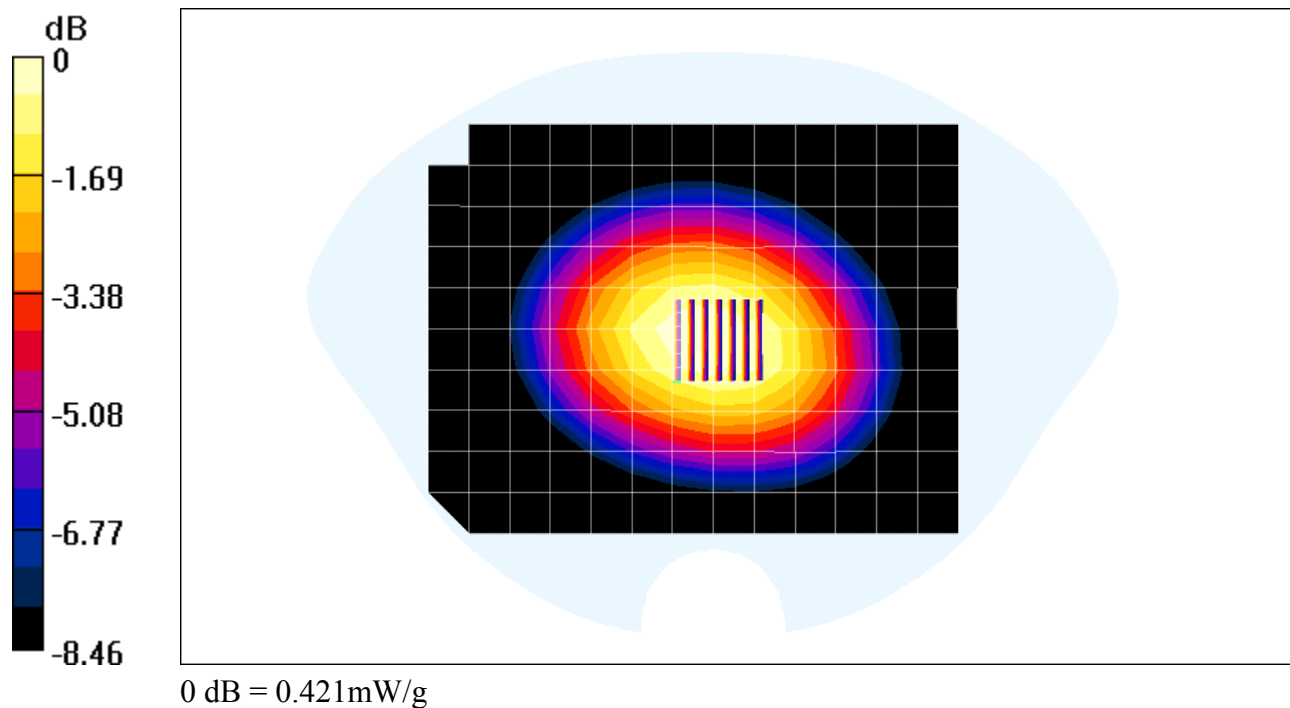
Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.293 mW/g

Reference Value = 23.1 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.421 mW/g



Date/Time: 11/19/03 22:59:33

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC AMPS Ch383 only, Flat Brain Air \(1inch\) Face Up, Thin Battery, Backpack Clip 11-19-03.da4](#)

## KX444 AMPS Ch383, Flat, Air Gap 1inch, Face Up, Thin Battery w/ Backpack Clip

DUT: KX444

Communication System: AMPS, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

AMPS Ch383 Flat/Area Scan (11x14x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 22.3 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.398 mW/g

AMPS Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

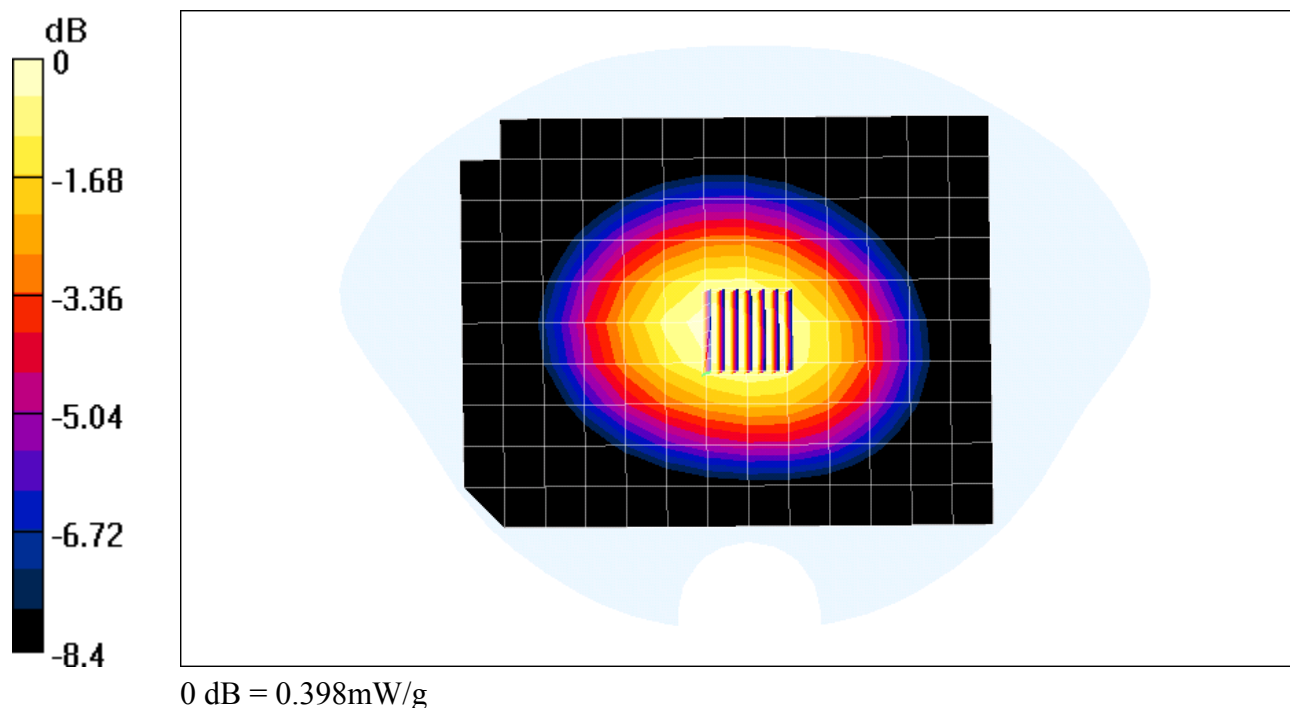
Peak SAR (extrapolated) = 0.471 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.277 mW/g

Reference Value = 22.3 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.398 mW/g



Date/Time: 11/16/03 17:55:26

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC CDMA-800 Left Cheek with Thick Battery and Backpack Clip, 11-16-03.da4](#)

## KX444 CDMA-800 Left Cheek with Standard Battery and Backpack Clip

DUT: KX444

Communication System: 800-CDMA, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.911$  mho/m,  $\epsilon_r = 42.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Left Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA800 Ch1013 LC/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 38.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.45 mW/g

CDMA800 Ch1013 LC/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

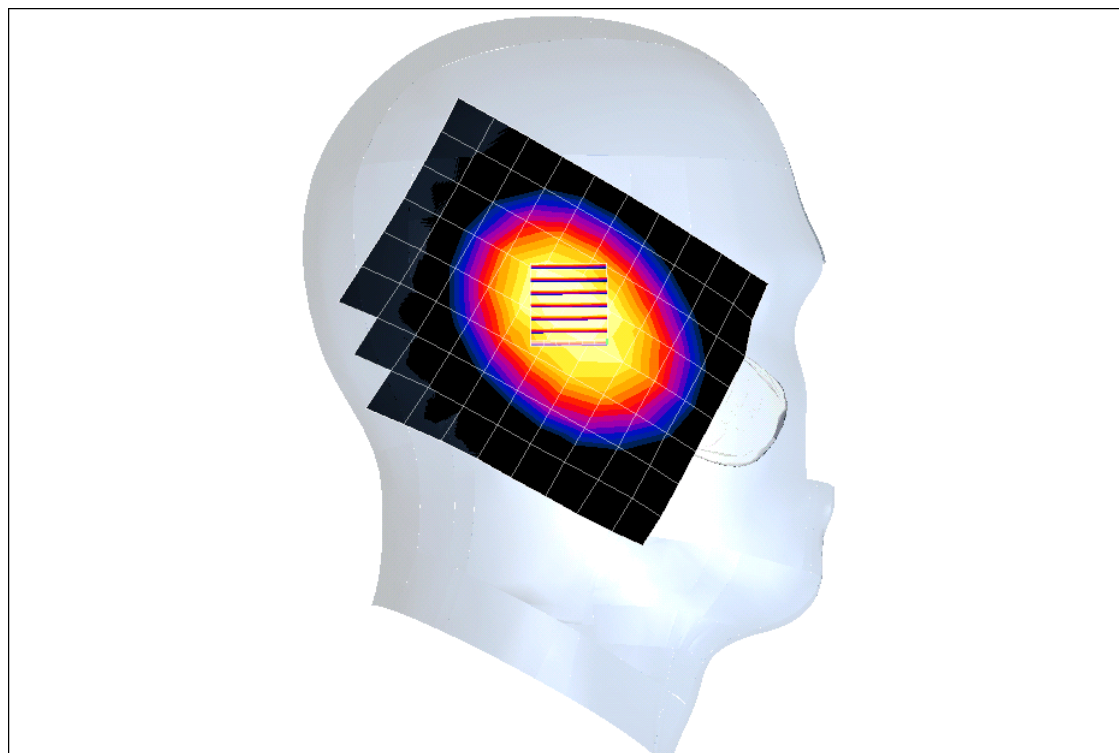
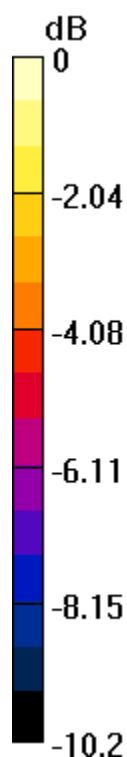
Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.974 mW/g

Reference Value = 38.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.44 mW/g



0 dB = 1.44mW/g

Date/Time: 11/17/03 15:57:37

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC CDMA-800 RIGHT Cheek with Thin Battery, 11-17-03.da4](#)

## KX444 CDMA-800 RIGHT Cheek with Thin Battery

DUT: KX444

Communication System: 800-CDMA, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.886$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Right Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA800 Ch1013 RC/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 39 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 1.29 mW/g

CDMA800 Ch1013 RC/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

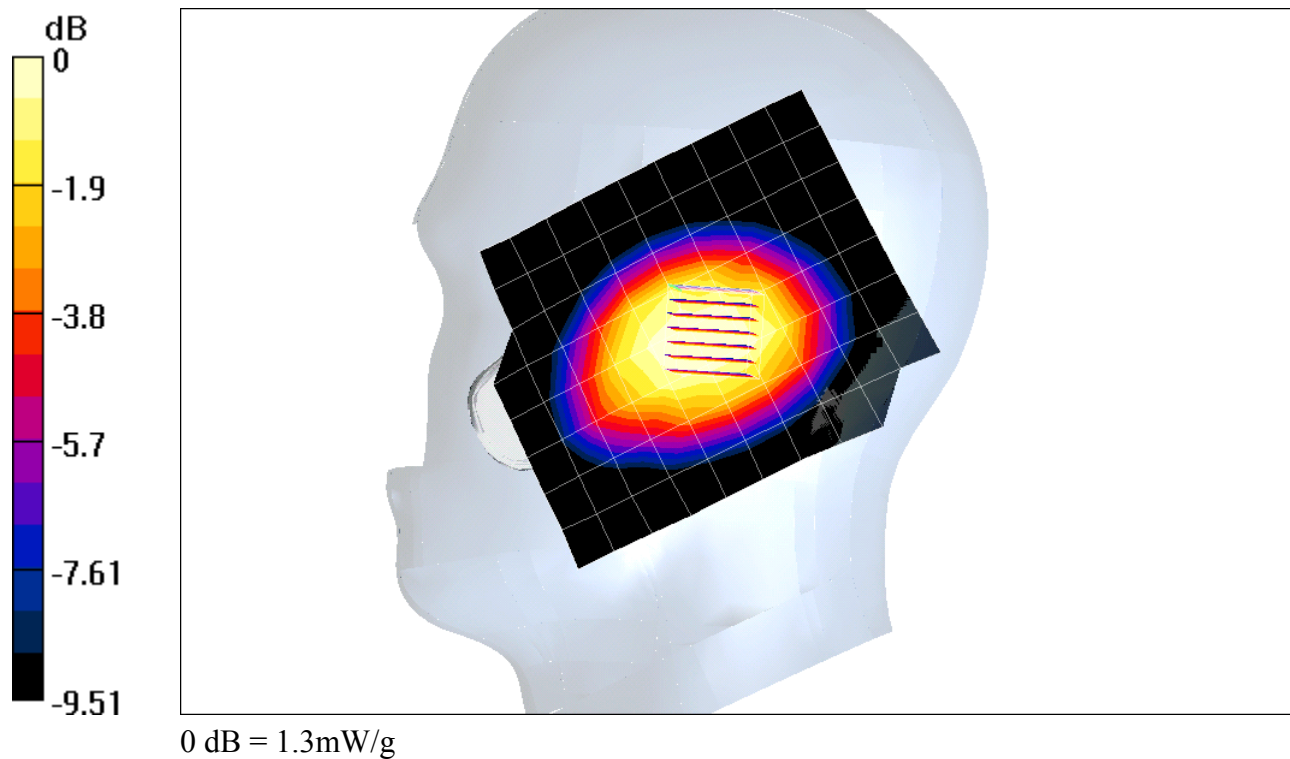
Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.952 mW/g

Reference Value = 39 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 1.3 mW/g



Date/Time: 11/16/03 17:01:55

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC CDMA-800 Left Tilt with Thin Battery and Backpack Clip, 11-16-03.da4](#)

## KX444 CDMA-800 Left Tilt with Thin Battery and Backpack Clip

DUT: KX444

Communication System: 800-CDMA, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.911$  mho/m,  $\epsilon_r = 42.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Left Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA800 Ch1013 LT/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.5 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 1.38 mW/g

CDMA800 Ch1013 LT/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

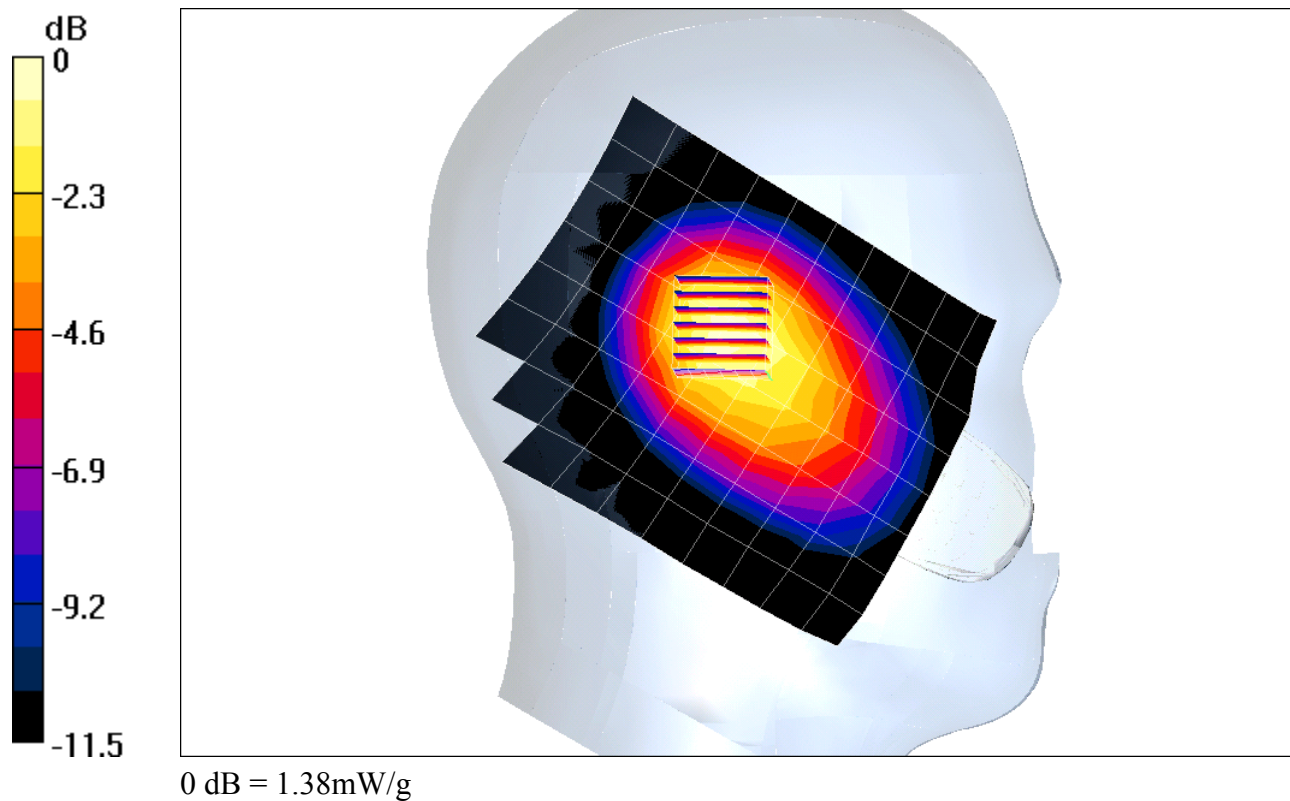
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.865 mW/g

Reference Value = 35.5 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 1.38 mW/g



Date/Time: 11/17/03 19:47:38

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC CDMA-800 Ch1013 only, Right Cheek & Tilt., Thin Battery Backpack Clip, 11-17-03.da4](#)

## KX444 CDMA-800 Ch1013, Right Tilt, Thin Battery Backpack Clip

DUT: KX444

Communication System: 800-CDMA, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.886$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Right Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA800 Ch1013 RT/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 35.6 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 1.13 mW/g

**CDMA800 Ch1013 RT/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

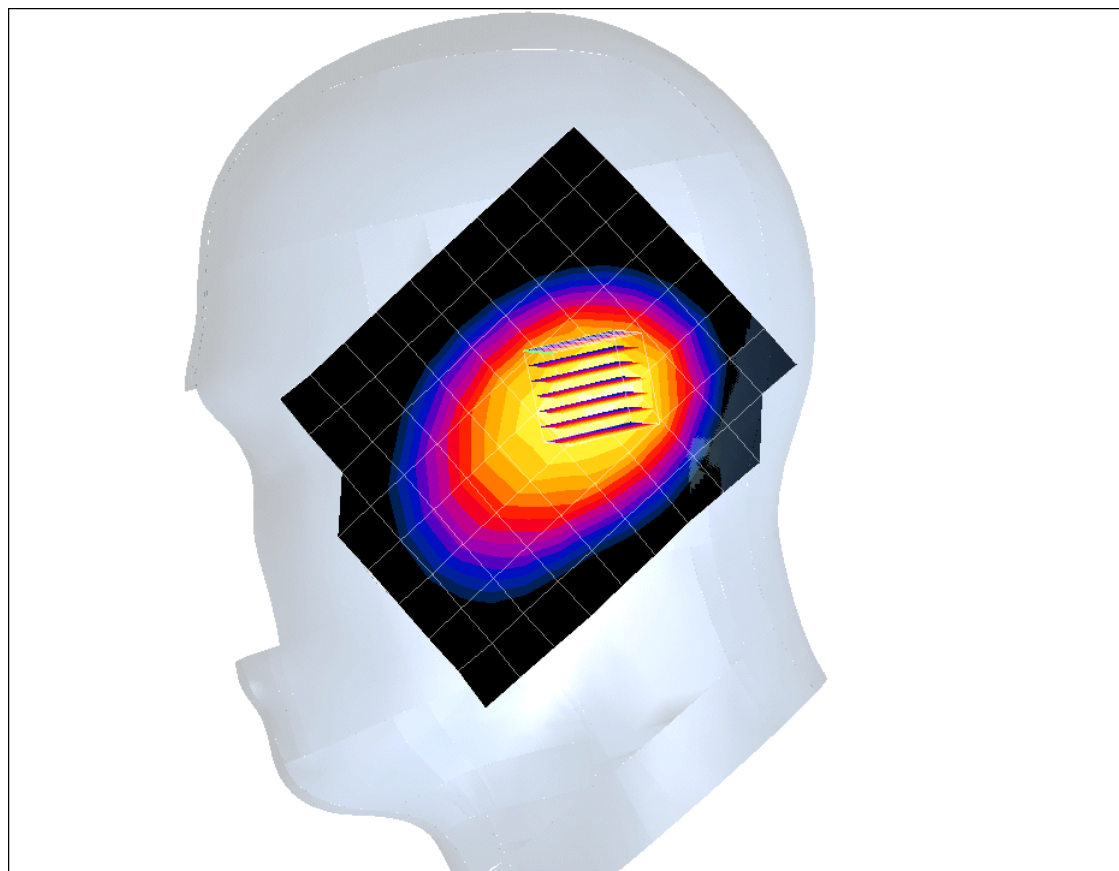
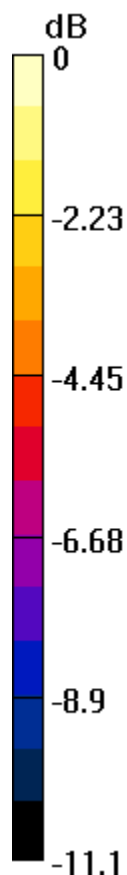
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.804 mW/g

Reference Value = 35.6 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 1.27 mW/g



Date/Time: 11/19/03 19:26:05

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC CDMA-800 Ch383 only, Flat Brain Air \(1 inch\) Face up, Thick battery, 11-19-03.da4](#)**KX444 CDMA-800 Ch383, Flat, Air Gap 1 inch, Face up, Standard battery**

DUT: KX444

Communication System: 800-CDMA, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

Sensor-Surface: 5mm (Mechanical And Optical Surface Detection)

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA800 Ch383 Flat/Area Scan (11x14x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 22.2 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.365 mW/g

**CDMA800 Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

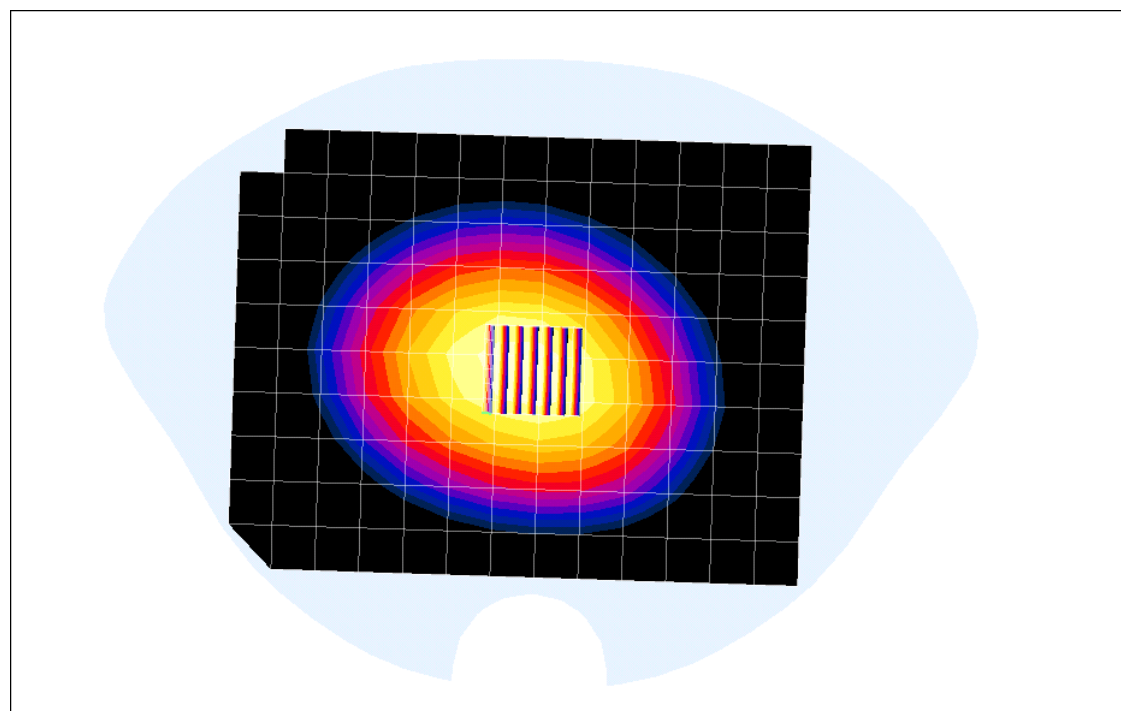
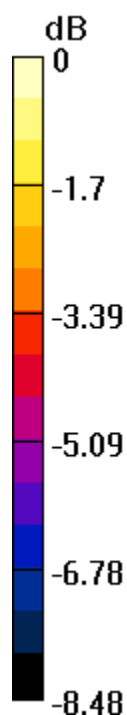
Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.27 mW/g

Reference Value = 22.2 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.385 mW/g



0 dB = 0.385mW/g

Date/Time: 11/20/03 01:55:09

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC CDMA-800 Ch383 only, Flat Brain Air \(1 inch\) face up, Thick battery, Backpack Clip, 11-20-03.da4](#)

## KX444 CDMA-800 Ch383, Flat, Air Gap 1 inch, face up, Standard battery, Backpack Clip

DUT: KX444

Communication System: 800-CDMA, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.891$  mho/m,  $\epsilon_r = 42.12$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

Sensor-Surface: 5mm (Mechanical And Optical Surface Detection)

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA800 Ch383 Flat/Area Scan (11x14x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.9 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.349 mW/g

CDMA800 Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

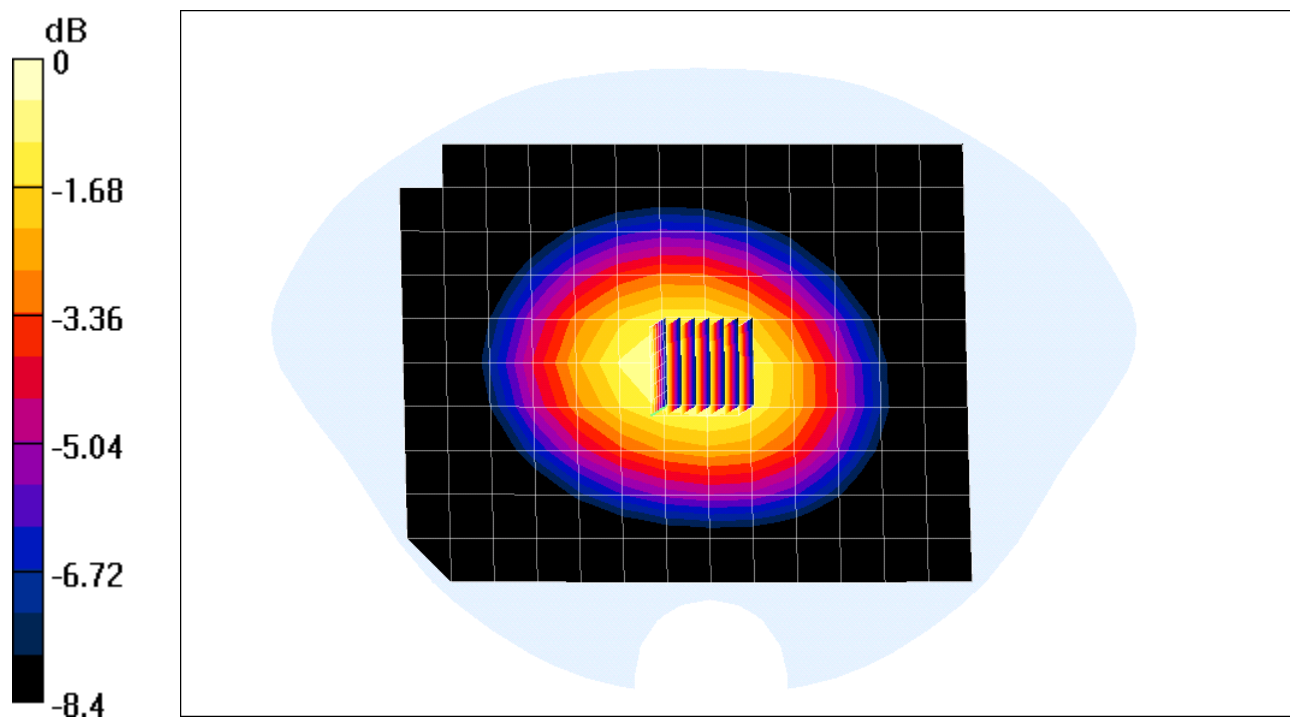
Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.264 mW/g

Reference Value = 21.9 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.378 mW/g



0 dB = 0.378mW/g

Date/Time: 11/19/03 20:08:30

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC CDMA-800 Ch383 only, Flat Brain Air \(1 inch\) Face up, Thin battery, 11-19-03.da4](#)**KX444 CDMA-800 Ch383, Flat, Air Gap 1 inch, Face up, Thin battery**

DUT: KX444

Communication System: 800-CDMA, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

Sensor-Surface: 5mm (Mechanical And Optical Surface Detection)

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA800 Ch383 Flat/Area Scan (11x14x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 22.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.397 mW/g

**CDMA800 Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

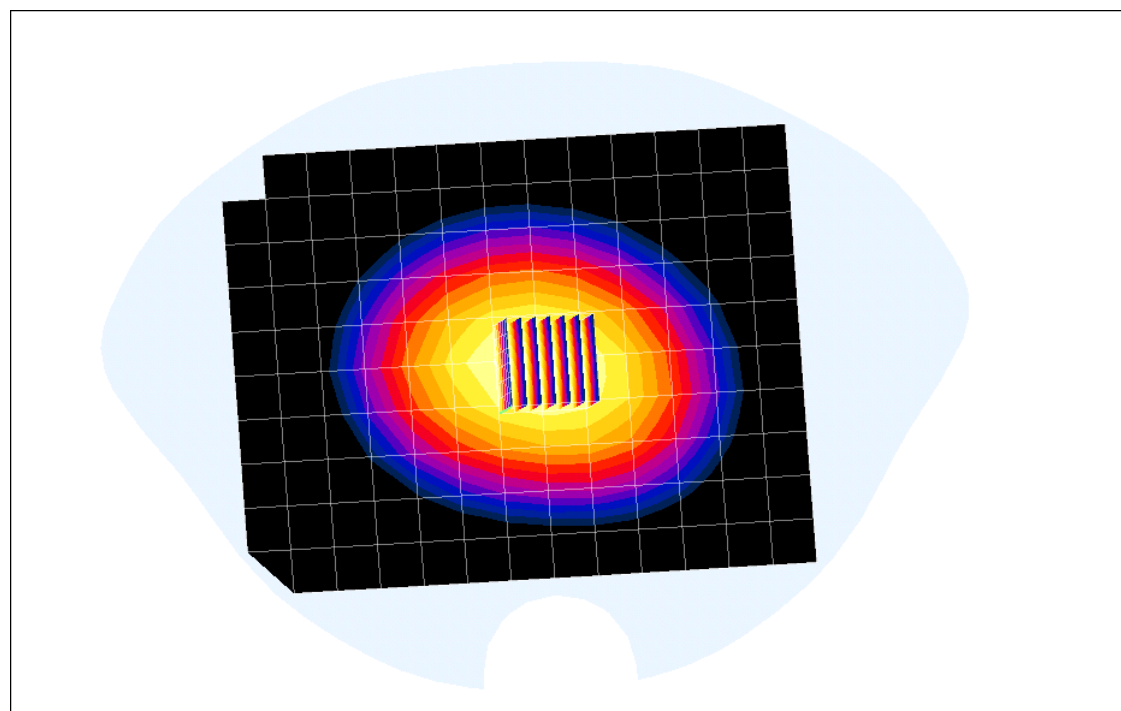
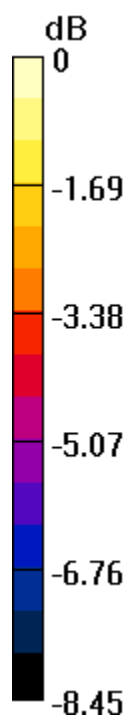
Peak SAR (extrapolated) = 0.495 W/kg

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.292 mW/g

Reference Value = 22.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.418 mW/g



0 dB = 0.418mW/g

Date/Time: 11/19/03 23:46:34

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC CDMA-800 Ch383 only, Flat Brain Air \(1 inch\) face up, Thin battery, Backpack Clip, 11-19-03.da4](#)

## KX444 CDMA-800 Ch383, Flat, Air Gap 1 inch, face up, Thin battery, Backpack Clip

DUT: KX444

Communication System: 800-CDMA, Frequency: 836.49 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, ( $\sigma = 0.903$  mho/m,  $\epsilon_r = 42.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.9, 6.9, 6.9), Calibrated: 10/10/2003

Sensor-Surface: 5mm (Mechanical And Optical Surface Detection)

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA800 Ch383 Flat/Area Scan (11x14x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 22.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.366 mW/g

CDMA800 Ch383 Flat/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

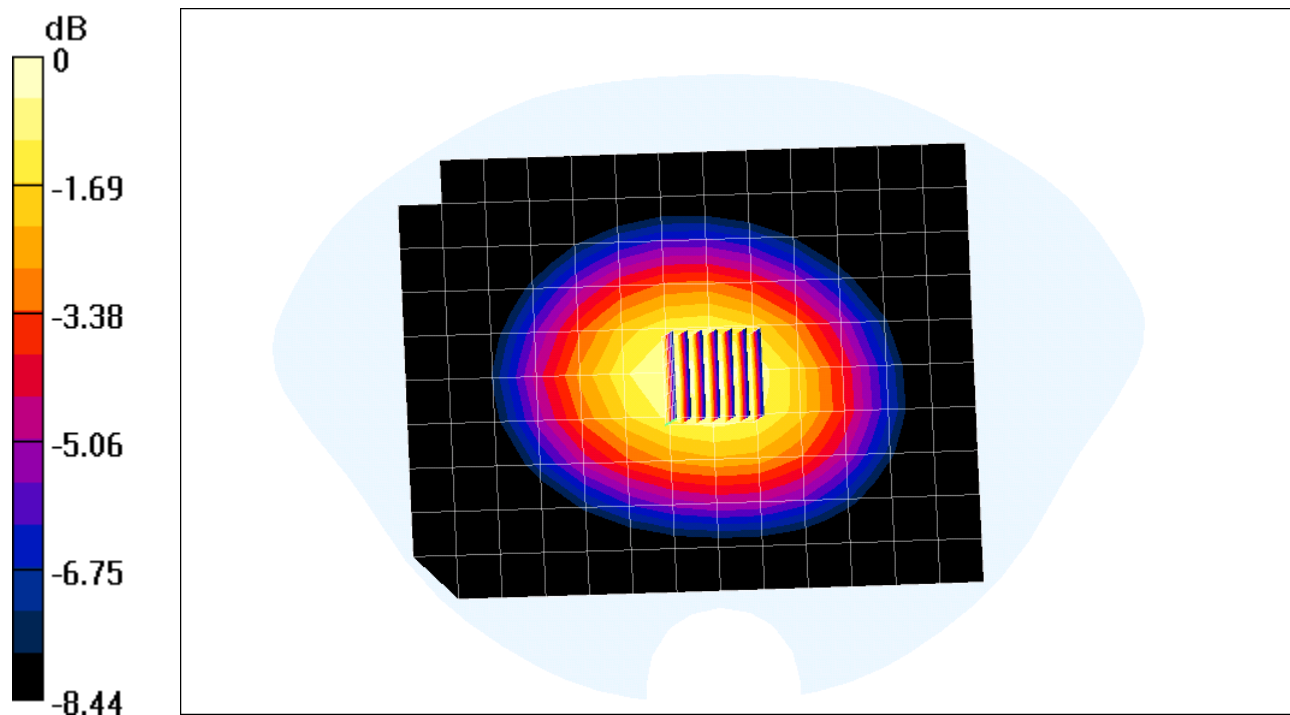
Peak SAR (extrapolated) = 0.46 W/kg

SAR(1 g) = 0.37 mW/g; SAR(10 g) = 0.273 mW/g

Reference Value = 22.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.39 mW/g



0 dB = 0.39mW/g

Date/Time: 11/15/03 08:33:03

Test Laboratory: Kyocera Wireless Corporation  
 File Name: [K7-PTT #D9YD, FCC PCS RC only, 11-15-03.da4](#)

## KX444 PCS Ch1175 Rright Cheek with Standard battery

DUT: KX444

Communication System: CDMA 1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.44$  mho/m,  $\epsilon_r = 39.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Right Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS Ch1175 RC/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 27.9 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 0.957 mW/g

**PCS Ch1175 RC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

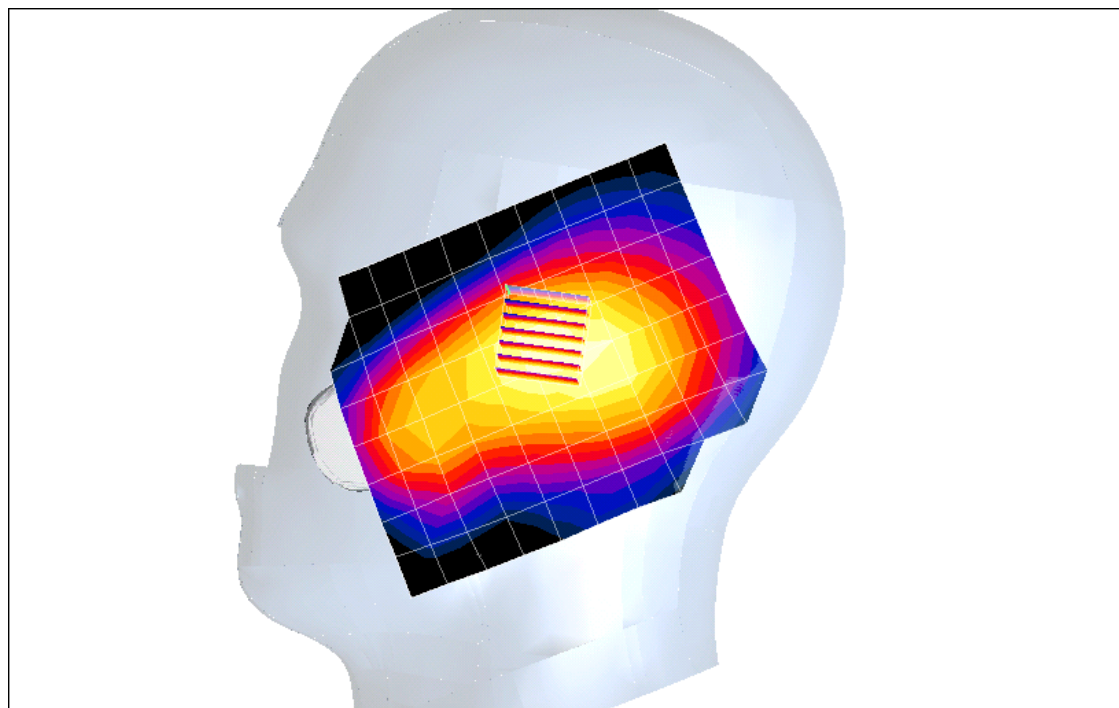
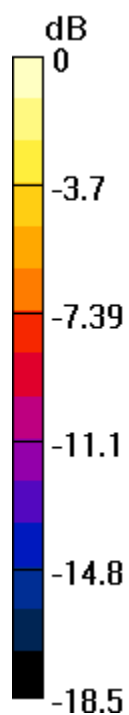
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.986 mW/g; SAR(10 g) = 0.612 mW/g

Reference Value = 27.9 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 1.07 mW/g



0 dB = 1.07mW/g

Date/Time: 11/15/03 13:26:45

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC PCS Ch1175 LC only, Thick battery, Backpack Clip, 11-15-03.da4](#)

## KX444 PCS Ch1175 Left Cheek, Standard battery, Backpack Clip

DUT: KX444

Communication System: CDMA 1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.54$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Left Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS 1175 LC/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 23.9 V/m

Power Drift = 0.05 dB

Maximum value of SAR = 1.01 mW/g

**PCS 1175 LC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

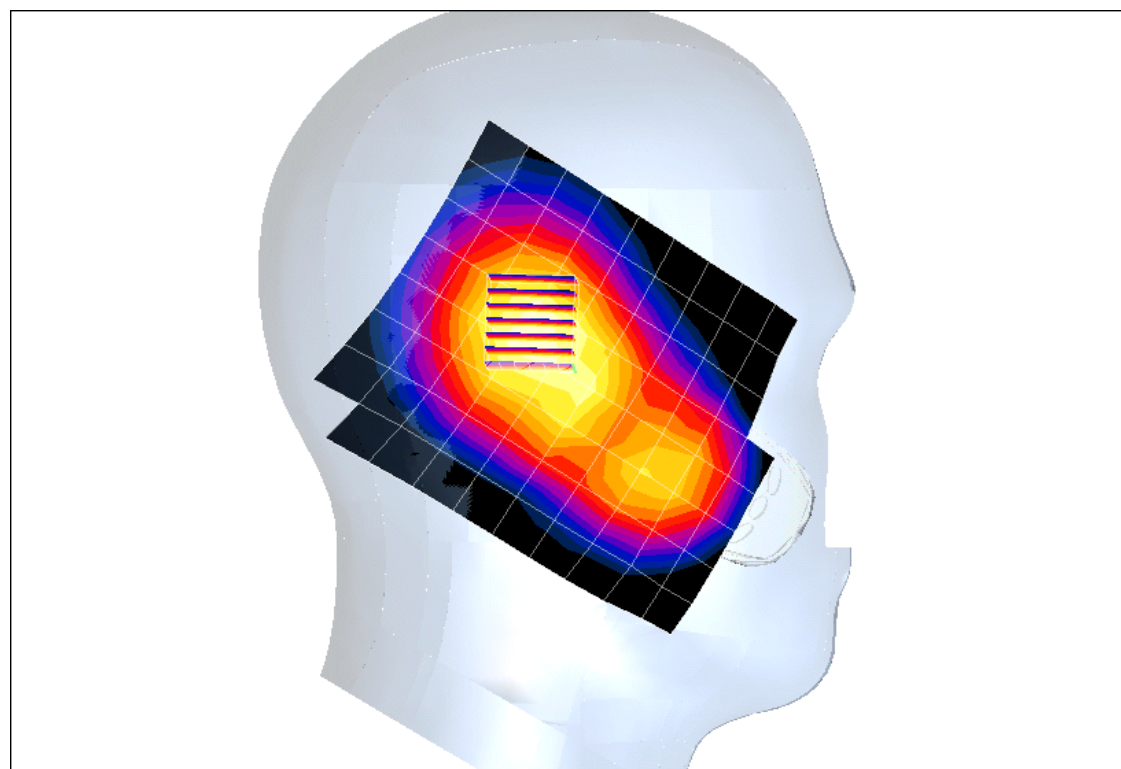
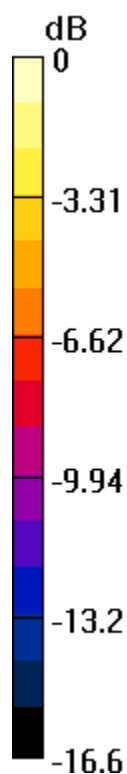
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.592 mW/g

Reference Value = 23.9 V/m

Power Drift = 0.05 dB

Maximum value of SAR = 1.1 mW/g



0 dB = 1.1mW/g

Date/Time: 11/14/03 21:57:34

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC PCS Ch1175 LT only, Thick battery, Backpack Clip, 11-14-03.da4](#)**Kx444 FCC PCS Ch1175 Left Tilt, Standard battery w/ Backpack Clip**

DUT: KX444

Communication System: CDMA 1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.44$  mho/m,  $\epsilon_r = 39.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Left Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS 1175 LT/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 25 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 1.52 mW/g

**PCS 1175 LT/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

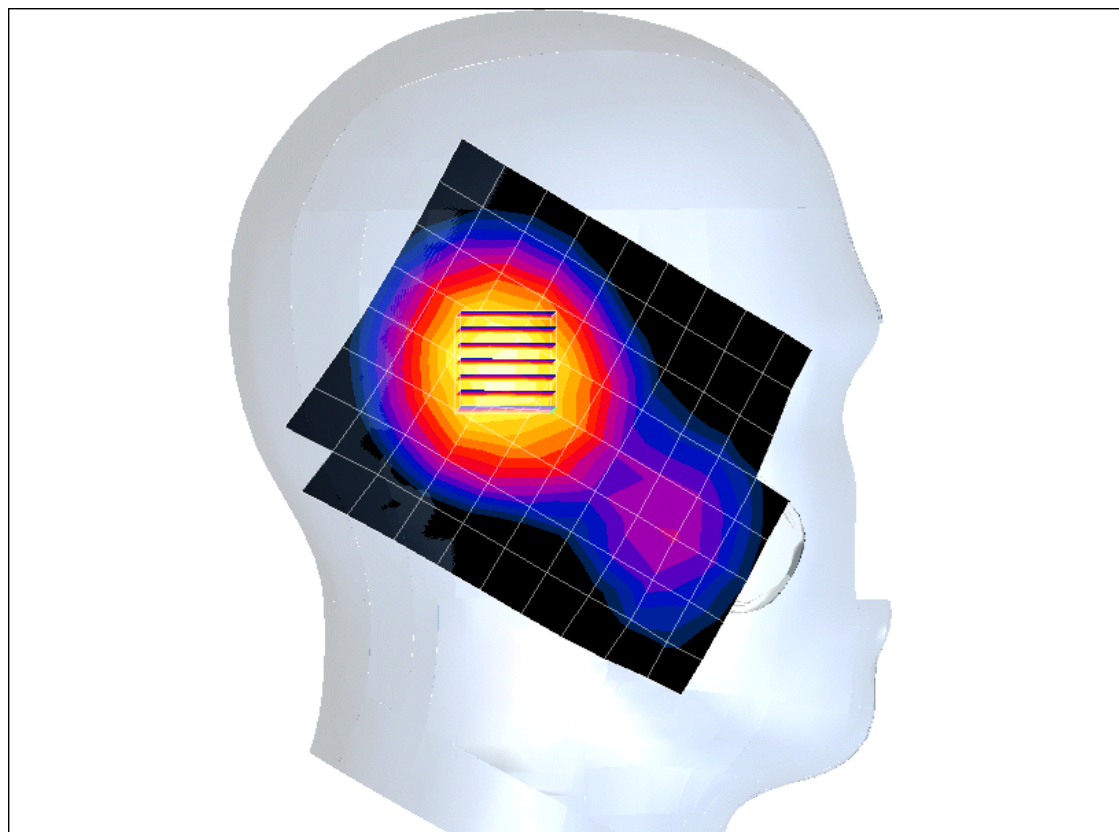
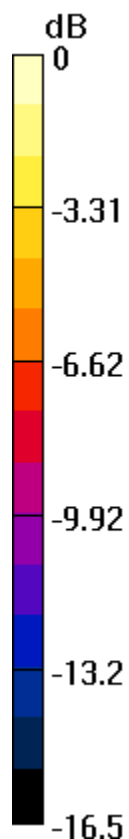
Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 1.46 mW/g; SAR(10 g) = 0.828 mW/g

Reference Value = 25 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 1.57 mW/g



Date/Time: 11/14/03 21:15:09

Test Laboratory: Kyocera Wireless Corporation

File Name: [K7-PTT #D9YD, FCC PCS Ch1175 RT only, Thick battery, Backpack Clip, 11-14-03.da4](#)

## KX444 PCS Ch1175 Right Tilt, Standard battery w/ Backpack Clip

DUT: KX444

Communication System: CDMA 1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.44$  mho/m,  $\epsilon_r = 39.44$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Right Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS Ch1175 RT/Area Scan (11x9x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 28.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.31 mW/g

**PCS Ch1175 RT/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

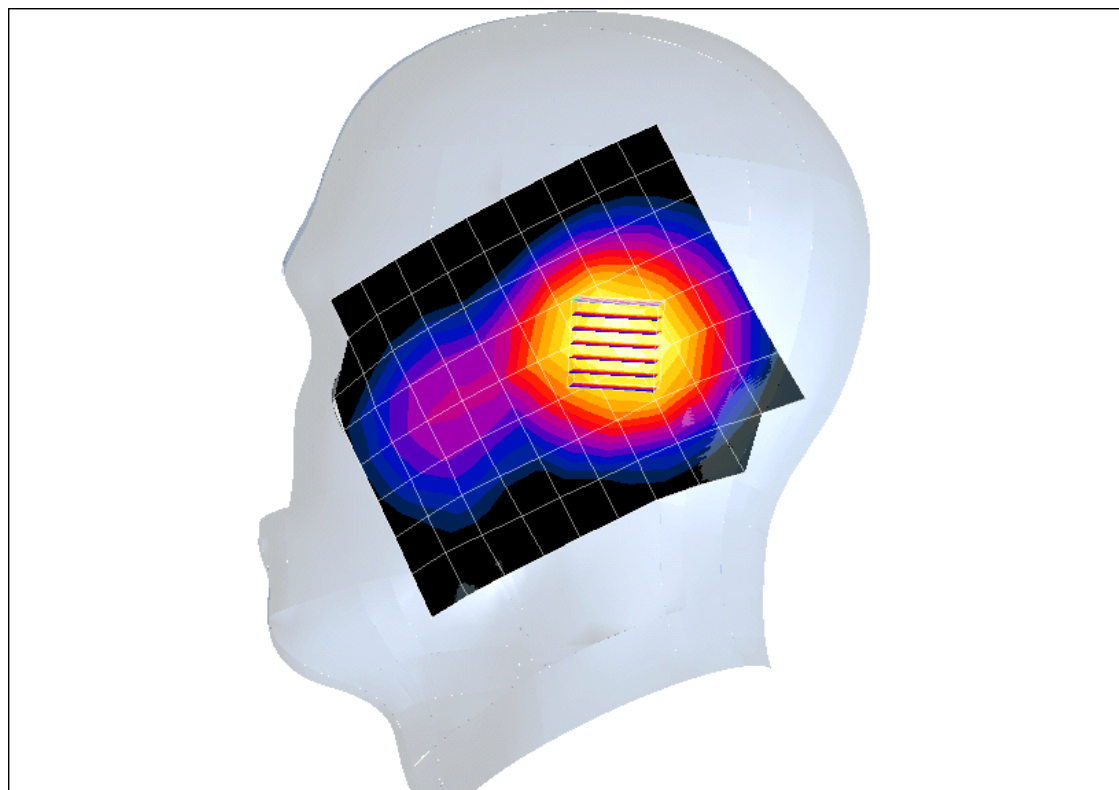
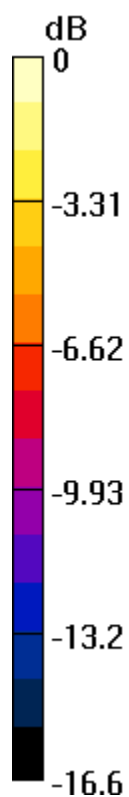
Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.75 mW/g

Reference Value = 28.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.4 mW/g



0 dB = 1.4mW/g

Date/Time: 11/19/03 14:02:57

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC PCS \(Head Liquid\)Ch600 only, Flat Air\(1 inch\) Face Up with Thick battery, 11-19-03.da4](#)**KX444 PCS Ch600, Flat, Air Gap 1 inch, Face Up with Standard battery**

DUT: KX444

Communication System: CDMA 1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.75$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS ch600/Area Scan (11x14x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.97 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.208 mW/g

**PCS ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

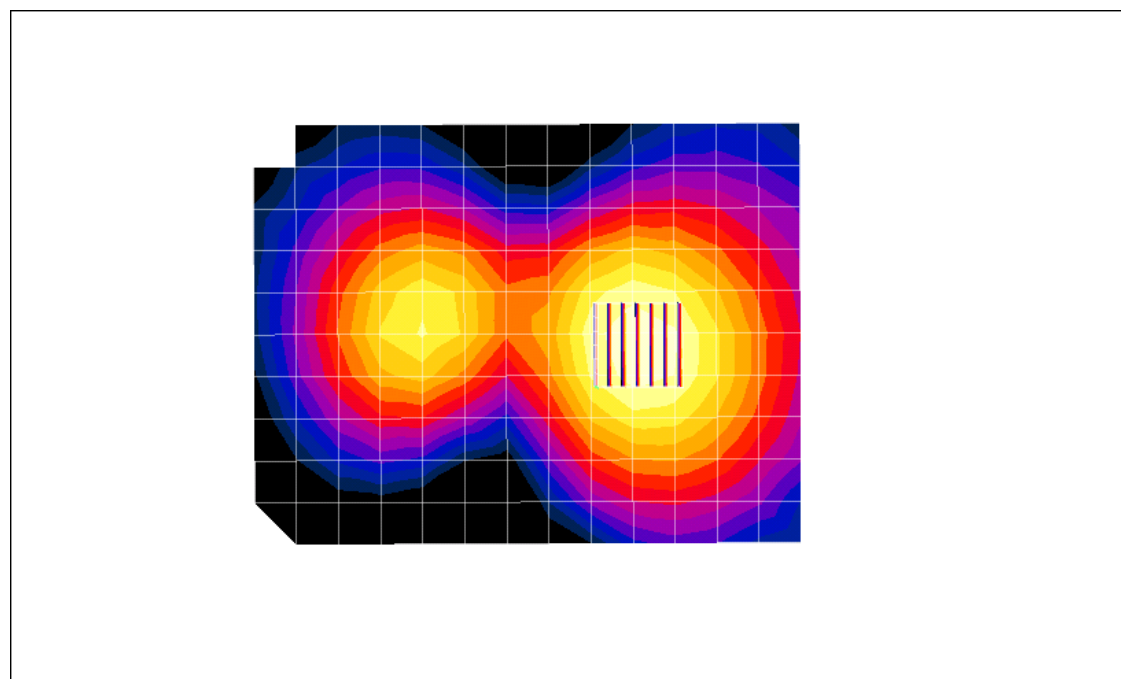
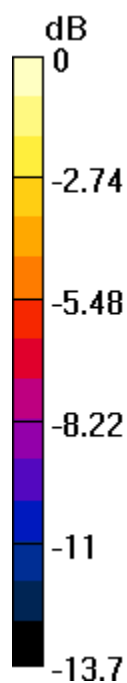
Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.127 mW/g

Reference Value = 7.97 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.217 mW/g



0 dB = 0.217mW/g

Date/Time: 11/19/03 16:26:56

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC PCS \(Head Liquid\)Ch600 only, Flat Air\(1 inch\) Face Up with Thick battery and Backpack Clip, 11-19-03.da4](#)

## KX444 PCS Ch600, Flat, Air Gap 1 inch, Face Up, Standard battery and Backpack Clip

DUT: KX444

Communication System: CDMA 1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.75$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

PCS ch600/Area Scan (11x14x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.69 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.227 mW/g

PCS ch600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

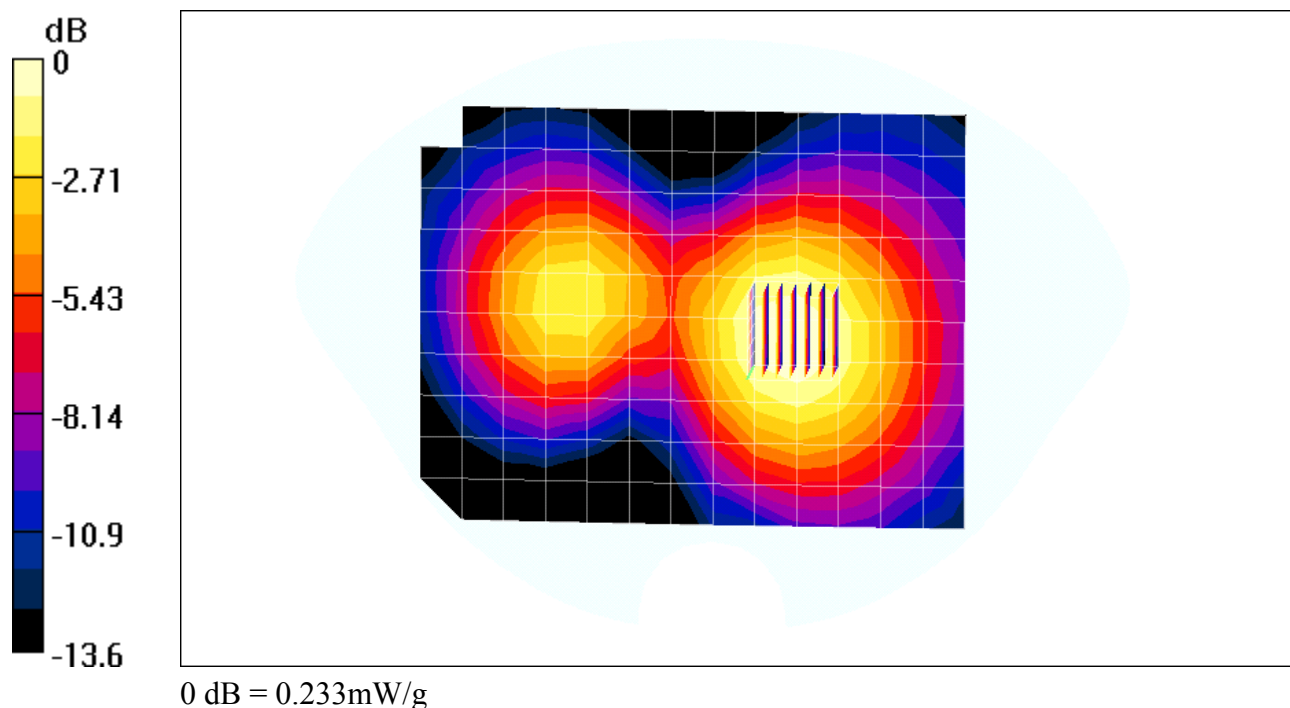
Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.139 mW/g

Reference Value = 9.69 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.233 mW/g



Date/Time: 11/19/03 15:02:04

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC PCS \(Head Liquid\)Ch600 only, Flat Air\(1 inch\) Face Up with Thin battery, 11-19-03.da4](#)

## KX444 PCS Ch600, Flat, Air Gap 1 inch, Face Up, Thin battery

DUT: KX444

Communication System: CDMA 1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.75$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS ch600/Area Scan (11x14x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.67 V/m

Power Drift = 0.04 dB

Maximum value of SAR = 0.165 mW/g

**PCS ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

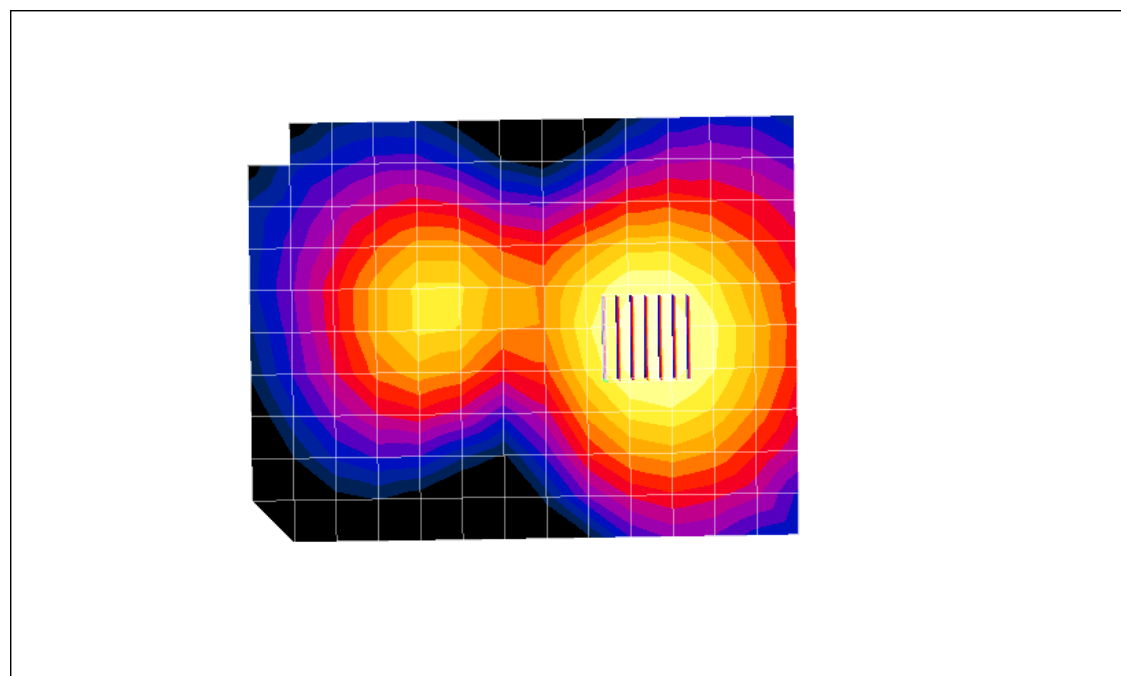
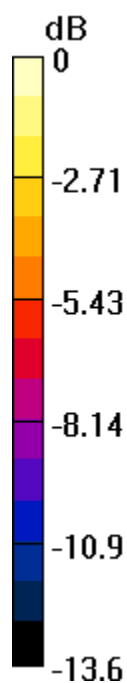
Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.105 mW/g

Reference Value = 6.67 V/m

Power Drift = 0.04 dB

Maximum value of SAR = 0.174 mW/g



0 dB = 0.174mW/g

Date/Time: 11/19/03 15:39:09

Test Laboratory: Kyocera Wireless Corporation

File Name: [KX444 #D9YD, FCC PCS \(Head Liquid\)Ch600 only, Flat Air\(1 inch\) Face Up with Thin battery and Backpack Clip, 11-19-03.da4](#)

## KX444 PCS Ch600, Flat, Air Gap 1 inch, Face Up, Thin battery and Backpack Clip

DUT: KX444

Communication System: CDMA 1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, ( $\sigma = 1.46$  mho/m,  $\epsilon_r = 39.75$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom: SAM 12, Phantom section: Flat Section

### DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.3, 5.3, 5.3), Calibrated: 10/10/2003

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

Electronics: DAE3 Sn527, Calibrated: DAE not calibrated

Measurement SW: DASY4, V4.1 Build 47

Postprocessing SW: SEMCAD, V1.6 Build 115

### Temperature:

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

PCS ch600/Area Scan (11x14x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.9 V/m

Power Drift = 0.07 dB

Maximum value of SAR = 0.22 mW/g

PCS ch600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.33 W/kg

SAR(1 g) = 0.22 mW/g; SAR(10 g) = 0.14 mW/g

Reference Value = 10.9 V/m

Power Drift = 0.07 dB

Maximum value of SAR = 0.234 mW/g

