Appendix B1:

SAR Distribution Plots (Head)

Test Laboratory: Kyocera

KX12 #XZ3N AMPS ch383 Left Cheek

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

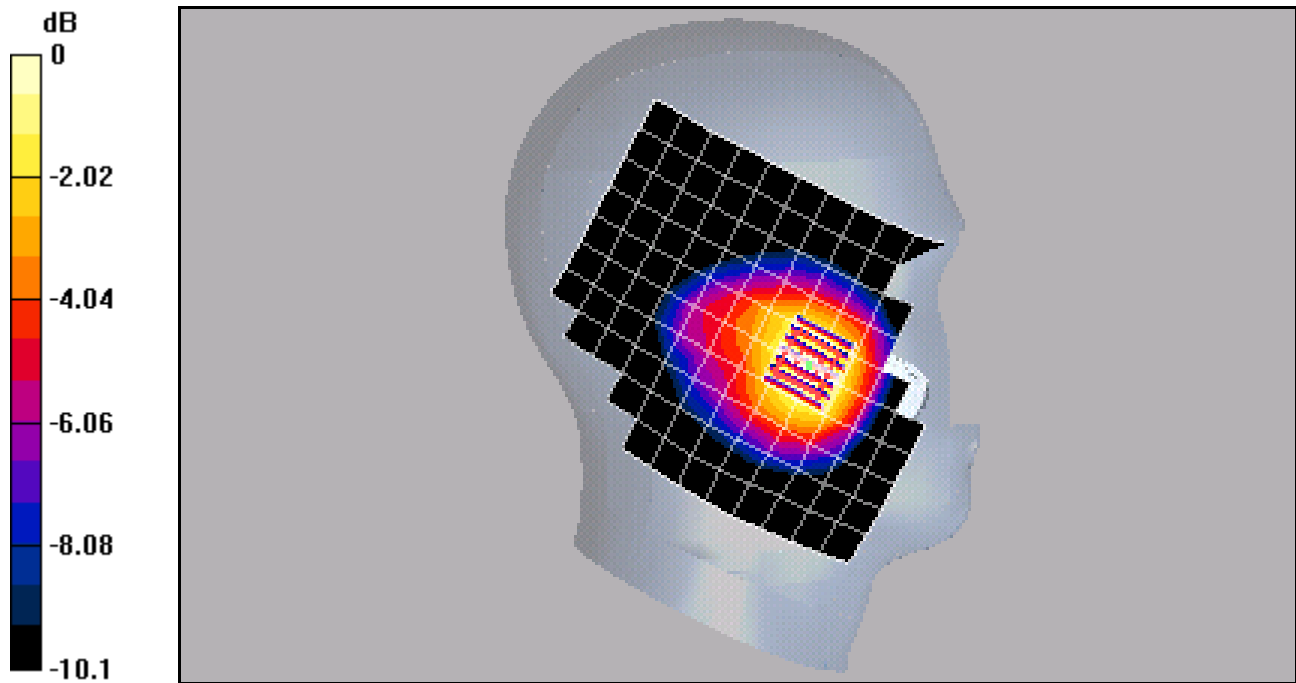## AMPS Ch383 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.4 V/m; Power Drift = -0.2 dB
Peak SAR (extrapolated) = 0.909 W/kg
SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.468 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.710 mW/g

0 dB = 0.710mW/g

Test Laboratory: Kyocera

KX12 #XZ3N AMPS ch383 Left Tilt

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

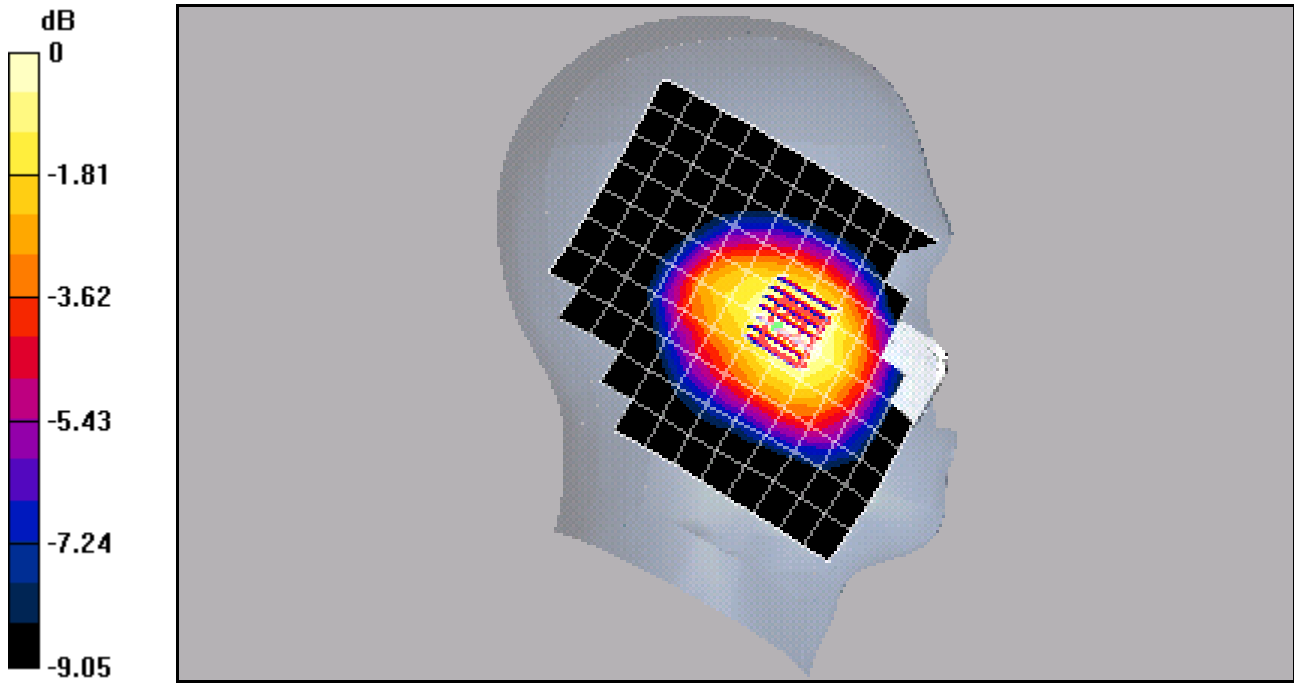## AMPS Ch383 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.5 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.584 W/kg
SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.322 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.464 mW/g

0 dB = 0.464mW/g

Test Laboratory: Kyocera

KX12 #XZ3N AMPS ch383 Right Cheek

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Right Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

AMPS Ch383 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
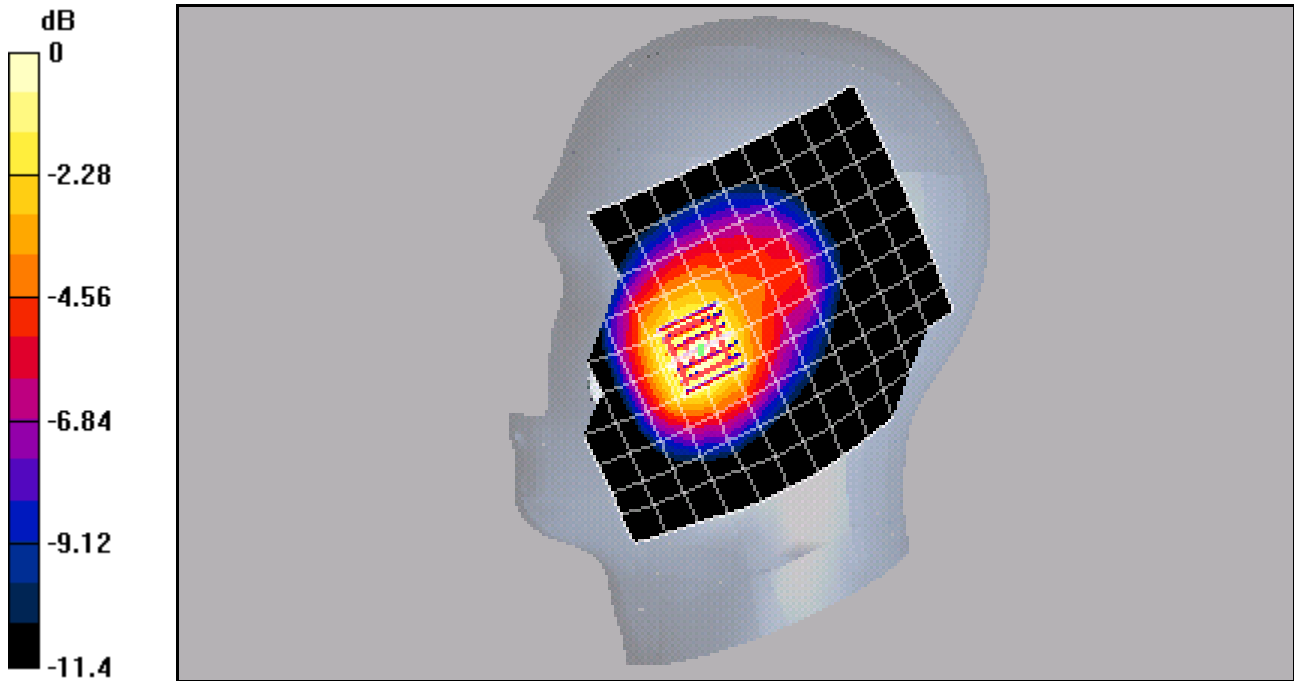
Reference Value = 14.8 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.878 W/kg
SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.436 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.687 mW/g

0 dB = 0.687mW/g

Test Laboratory: Kyocera

KX12 #XZ3N AMPS ch383 Right Tilt

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Right Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

AMPS Ch383 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.2 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.624 W/kg
SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.353 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.514 mW/g

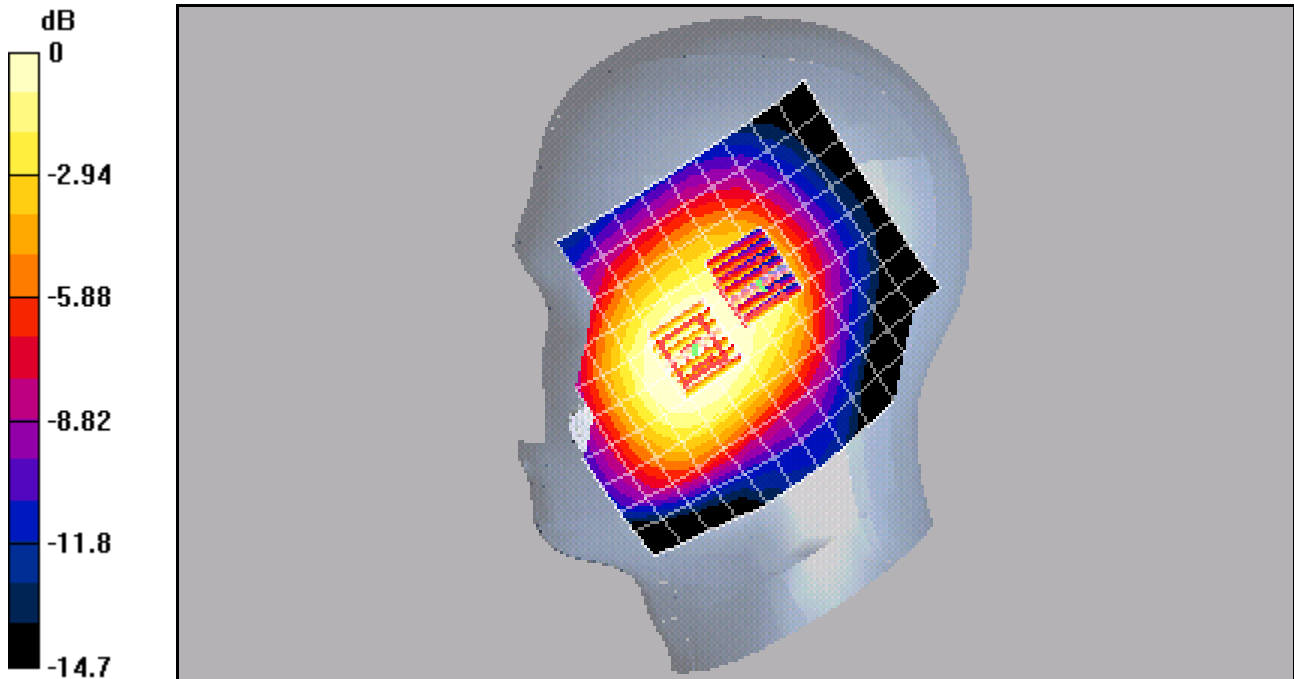## AMPS Ch383 RT/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.2 V/m; Power Drift = -0.1 dB
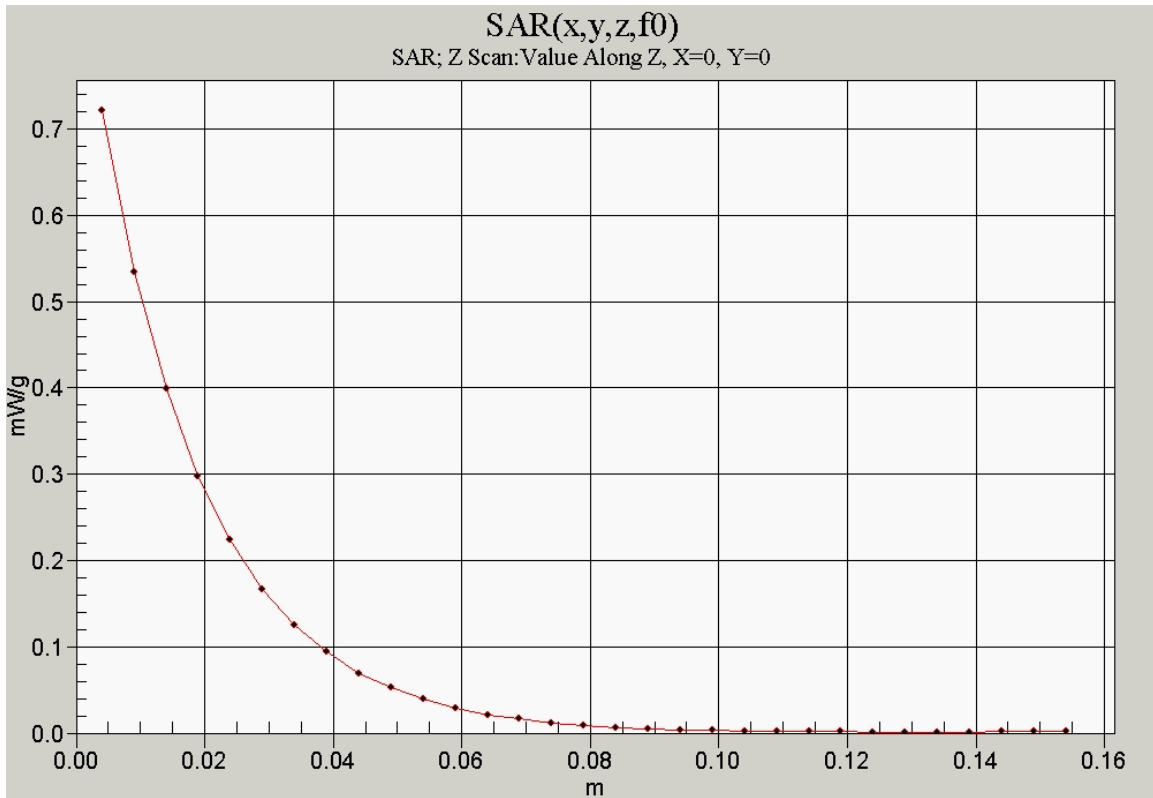Peak SAR (extrapolated) = 0.693 W/kg
SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.223 mW/g

Info: Interpolated medium parameters used for SAR evaluation! .
Maximum value of SAR (measured) = 0.389 mW/g

0 dB = 0.389mW/g

SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-800 ch383 Left Cheek

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

CDMA-800 Ch383 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
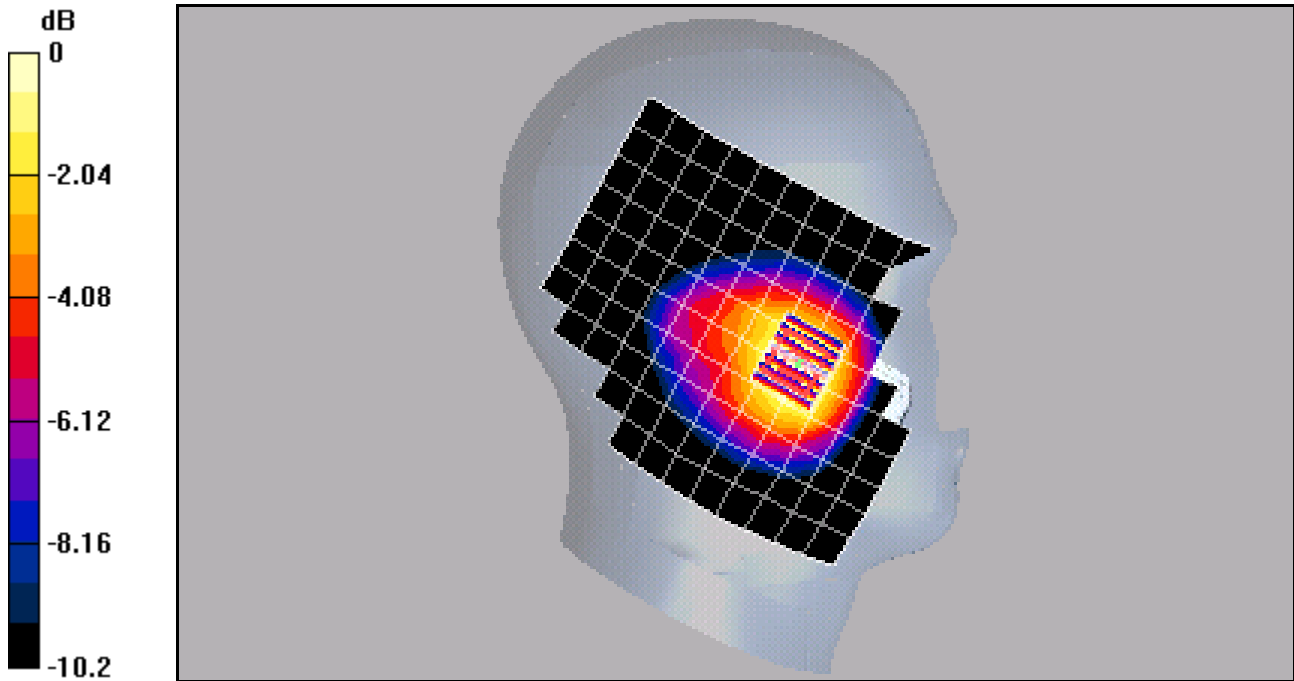
Reference Value = 16.6 V/m; Power Drift = -0.2 dB
Peak SAR (extrapolated) = 0.897 W/kg
SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.464 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.706 mW/g

0 dB = 0.706mW/g

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-800 ch383 Left Tilt

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

CDMA-800 Ch383 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
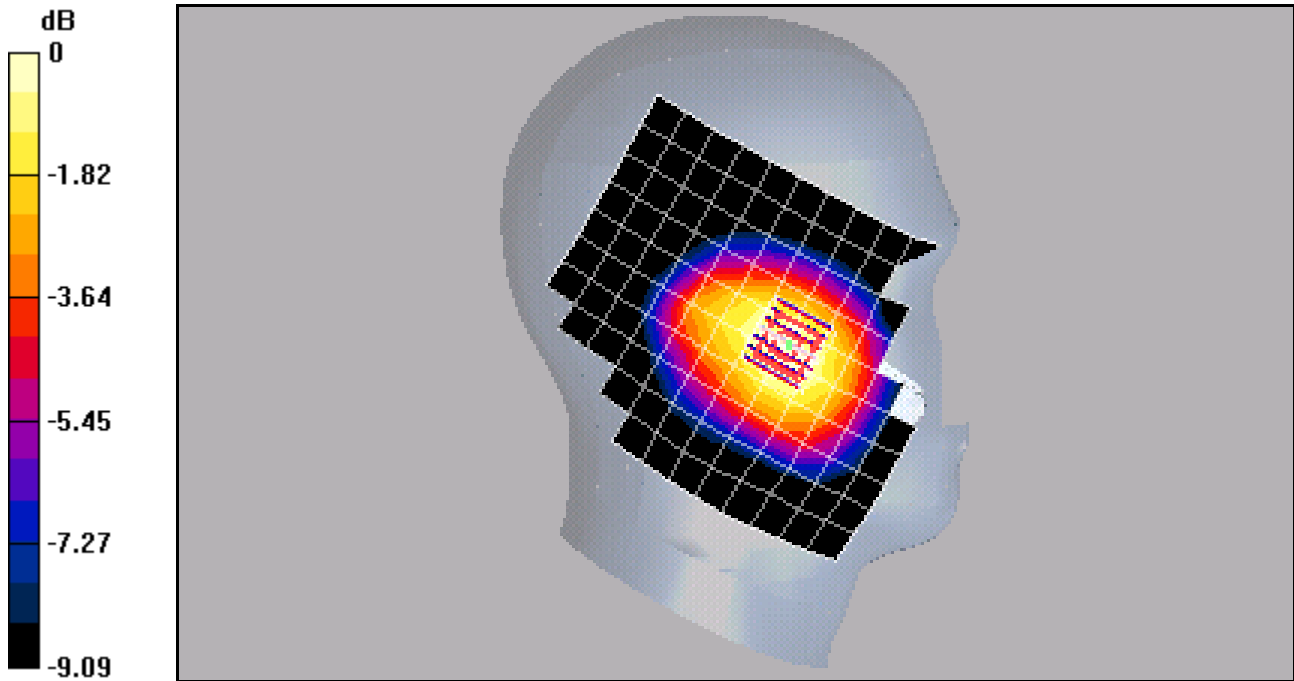
Reference Value = 19.4 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.588 W/kg
SAR(1 g) = 0.455 mW/g; SAR(10 g) = 0.331 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.481 mW/g

0 dB = 0.481mW/g

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-800 ch383 Right Cheek

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Right Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

CDMA-800 Ch383 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
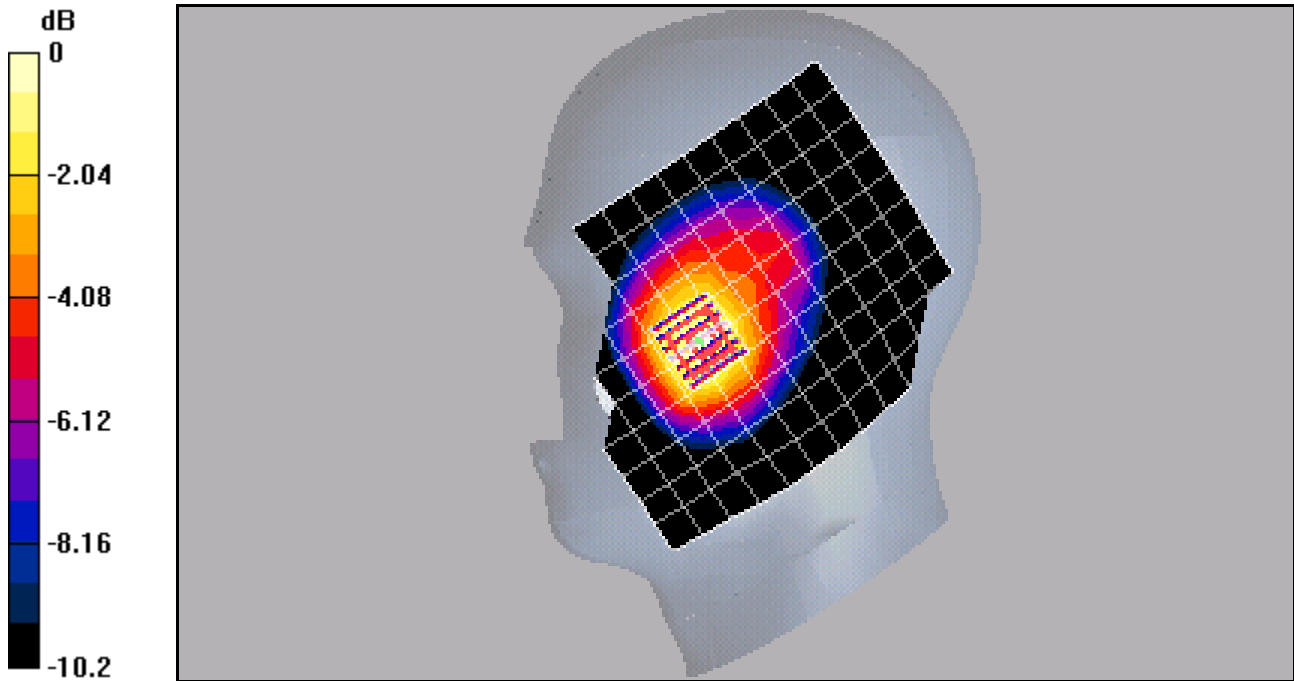Reference Value = 15.4 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.923 W/kg
SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.470 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.717 mW/g

0 dB = 0.717mW/g

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-800 ch383 Right Tilt

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

Medium: HSL900,Medium parameters used (interpolated): f = 836.49 MHz; σ = 0.91 mho/m; $ε_r$ = 41.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Right Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(6.29, 6.29, 6.29), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

CDMA-800 Ch383 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = 0.0005 dB
Peak SAR (extrapolated) = 0.575 W/kg
SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.326 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.471 mW/g

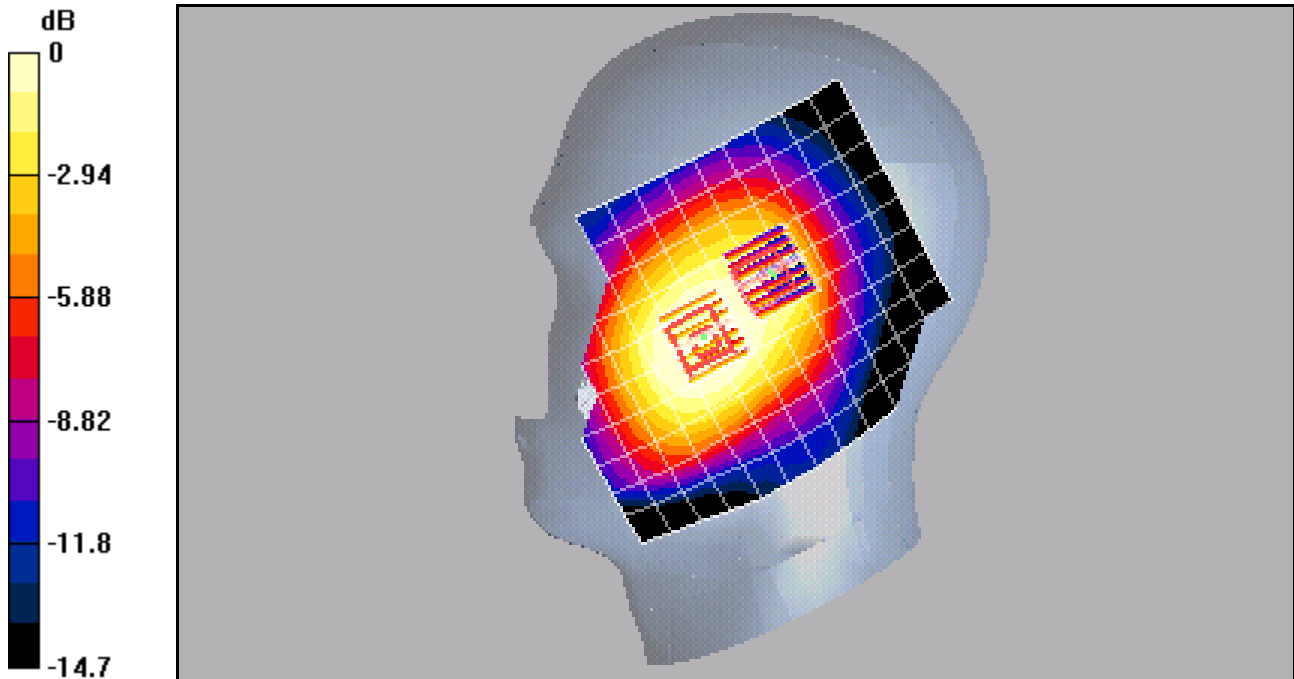# CDMA-800 Ch383 RT/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = 0.0005 dB
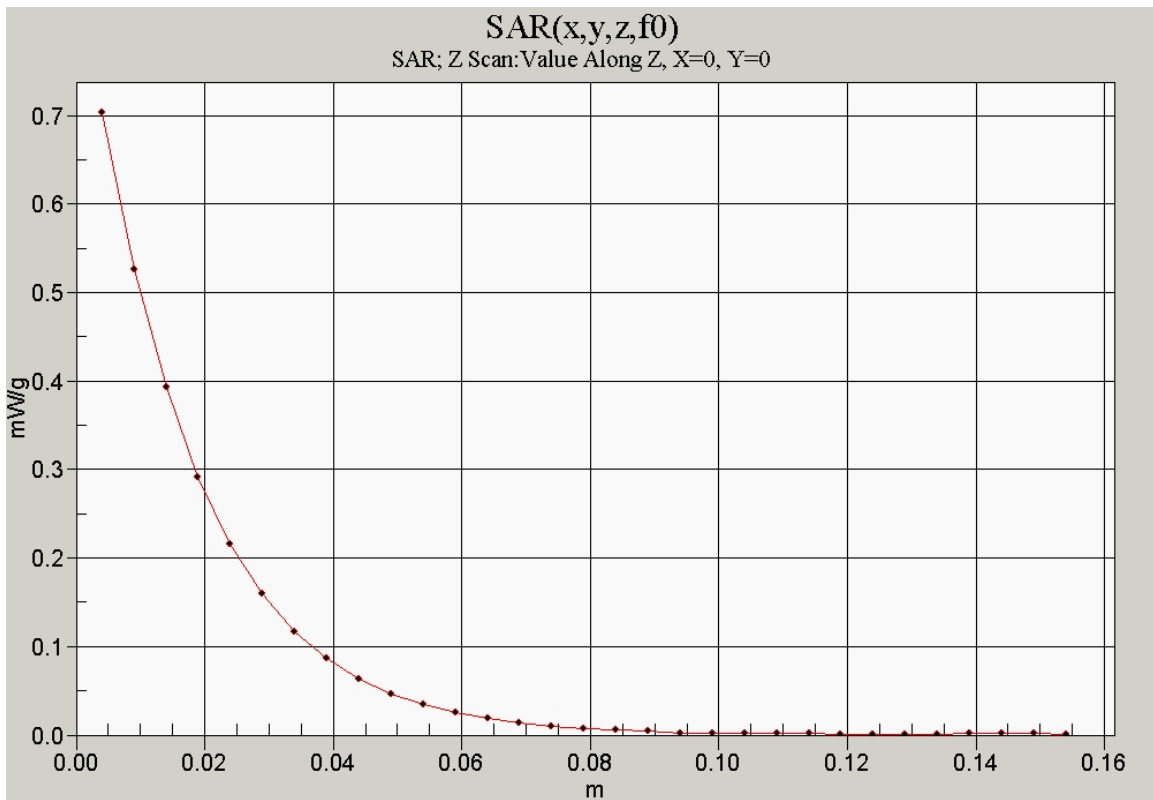Peak SAR (extrapolated) = 0.642 W/kg
SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.209 mW/g

Info: Interpolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.361 mW/g

0 dB = 0.361mW/g

SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-1900 ch25 Left Cheek

Communication System: CDMA-1900, Frequency: 1851.25 MHz, Duty Cycle: 1:1

Medium: HSL1800,Medium parameters used (extrapolated): f = 1851.25 MHz; σ = 1.39 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(5.18, 5.18, 5.18), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

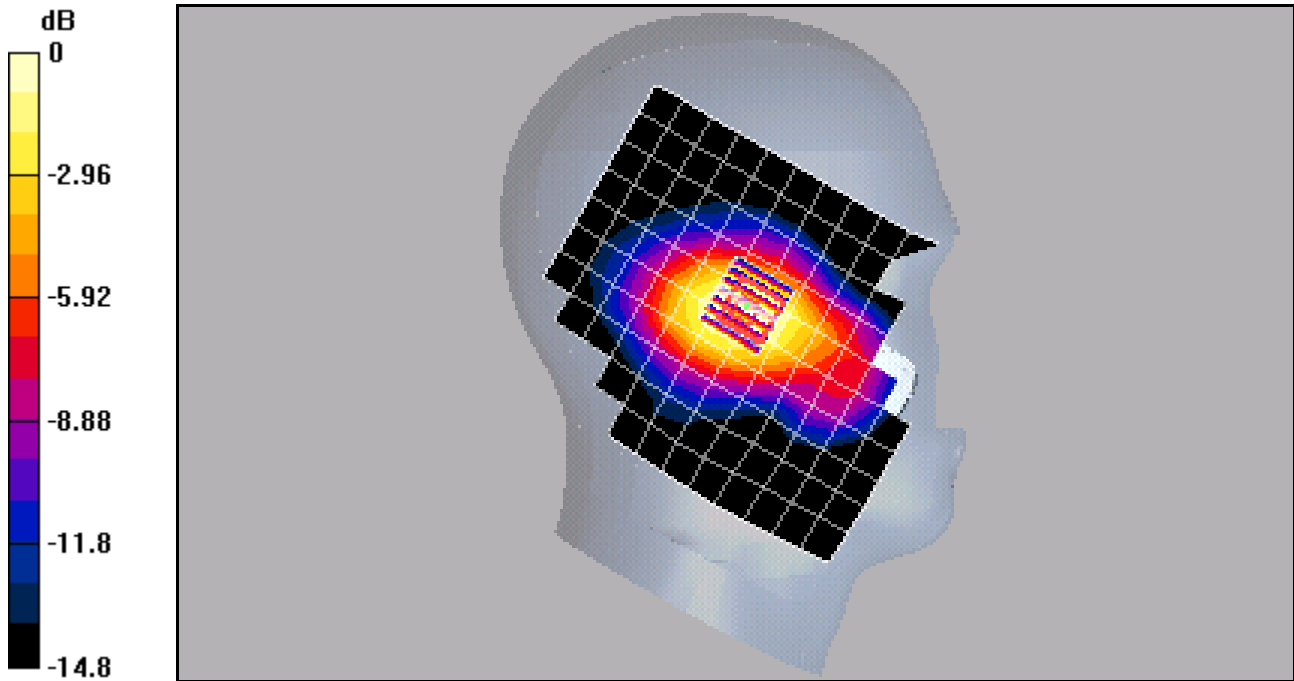## PCS Ch25 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.4 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.611 mW/g

Info: Extrapolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 1.02 mW/g

0 dB = 1.02mW/g

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-1900 ch600 Left Tilt

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

Medium: HSL1800,Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; $ε_r$ = 40.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Left Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(5.18, 5.18, 5.18), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
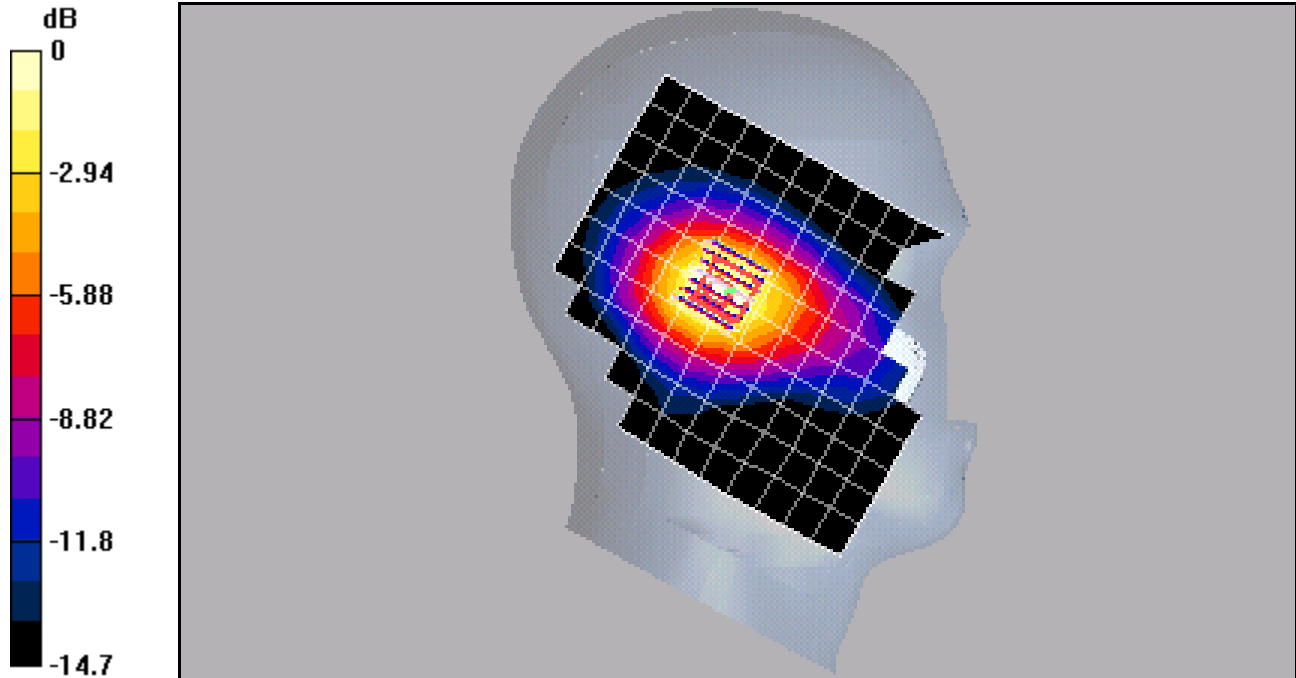Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

PCS Ch600 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.5 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.451 mW/g
Maximum value of SAR (measured) = 0.780 mW/g

0 dB = 0.780mW/g

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-1900 ch25 Right Cheek

Communication System: CDMA-1900, Frequency: 1851.25 MHz, Duty Cycle: 1:1

Medium: HSL1800,Medium parameters used (extrapolated): f = 1851.25 MHz; σ = 1.39 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Right Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(5.18, 5.18, 5.18), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

PCS Ch25 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
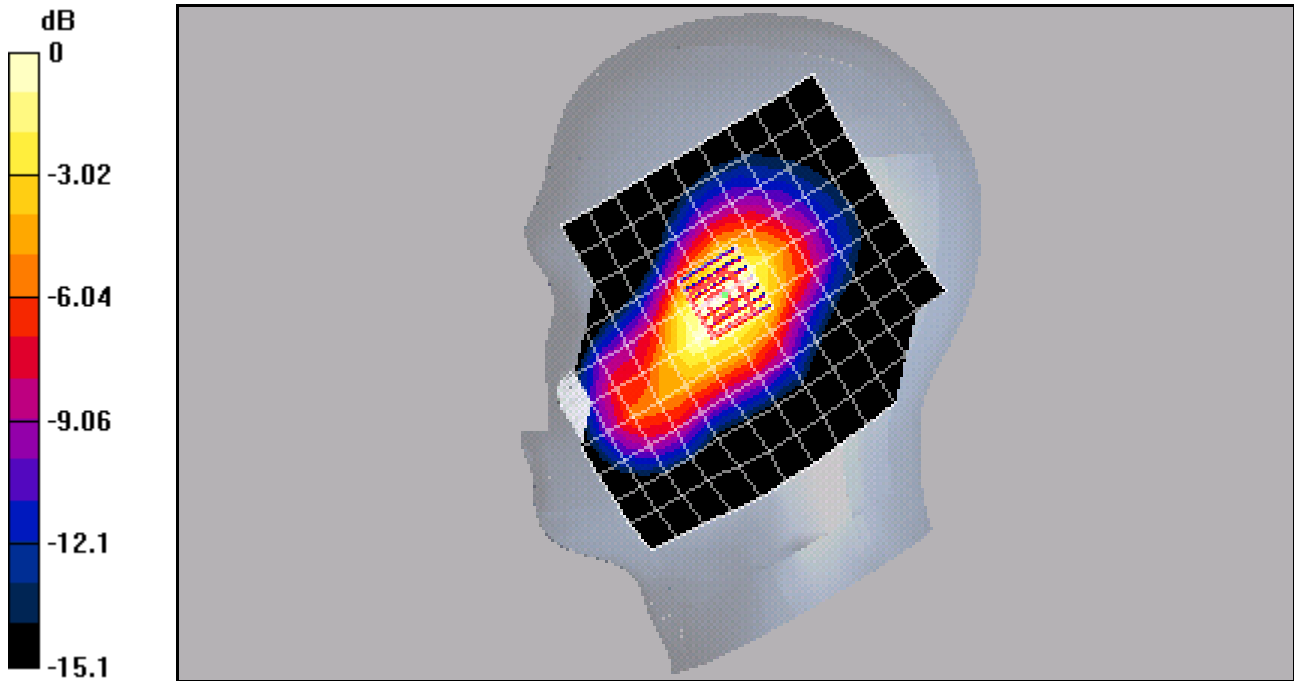Reference Value = 17.9 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.593 mW/g

Info: Extrapolated medium parameters used for SAR evaluation!
Maximum value of SAR (measured) = 0.968 mW/g

0 dB = 0.968mW/g

Test Laboratory: Kyocera

KX12 #XZ3N CDMA-1900 ch600 Right Tilt

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

Medium: HSL1800,Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3

Phantom: SAM 12,Phantom section: Right Section

DASY4 Configuration:
Probe: ET3DV6 - SN1713, ConvF(5.18, 5.18, 5.18), Calibrated: 5/19/2005
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 1/4/2005
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature:
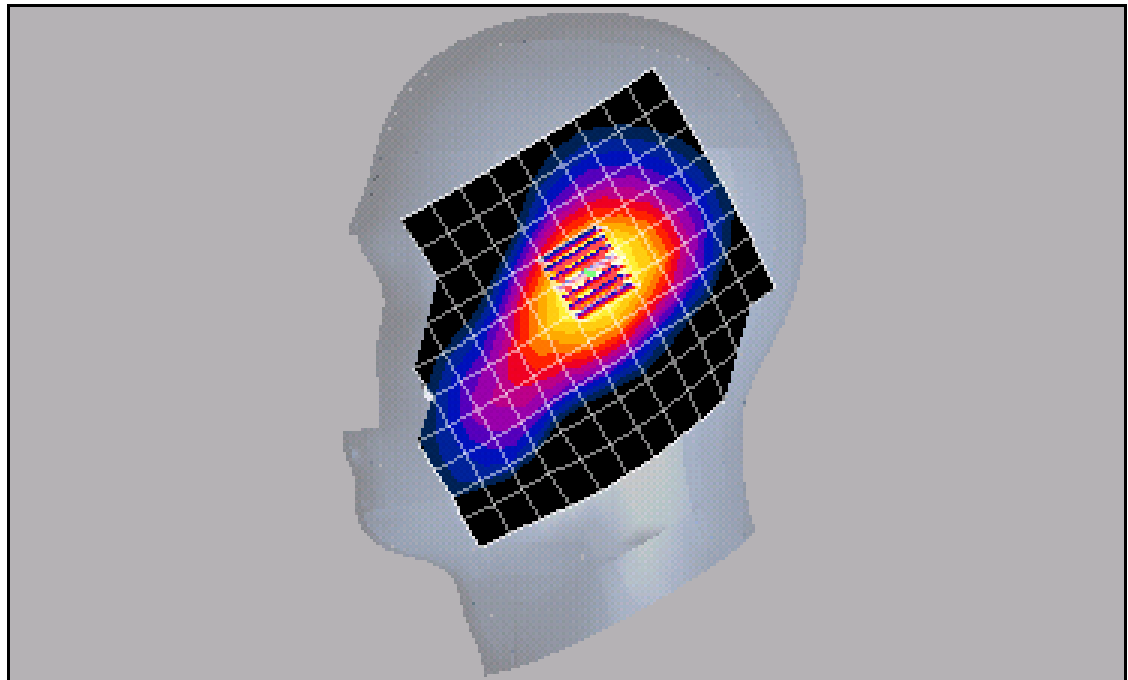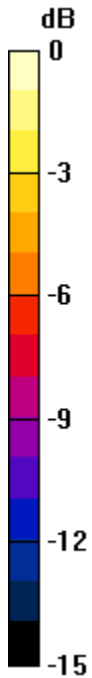Room T = 21.8 +/− 1 deg C, Liquid T = 22.0 +/− 1 deg C

PCS Ch600 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.9 V/m; Power Drift = -0.008 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.439 mW/g
Maximum value of SAR (measured) = 0.787 mW/g

0 dB = 0.787mW/g

SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0