

EXHIBIT A – SAR TEST DATA

PCTEST SAR REPORT	 FCC Measurement Report 			Reviewed by: Quality Manager
SAR Filename: SAR-231027529.BEJ	Test Dates: November 10-13, 2003	Phone Type: Tri-Mode Dual-Band Phone	FCC ID: BEJXX7000A	Page 36 of 39

PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Touch Ch. 0383, Standard Battery, Fixed Antenna

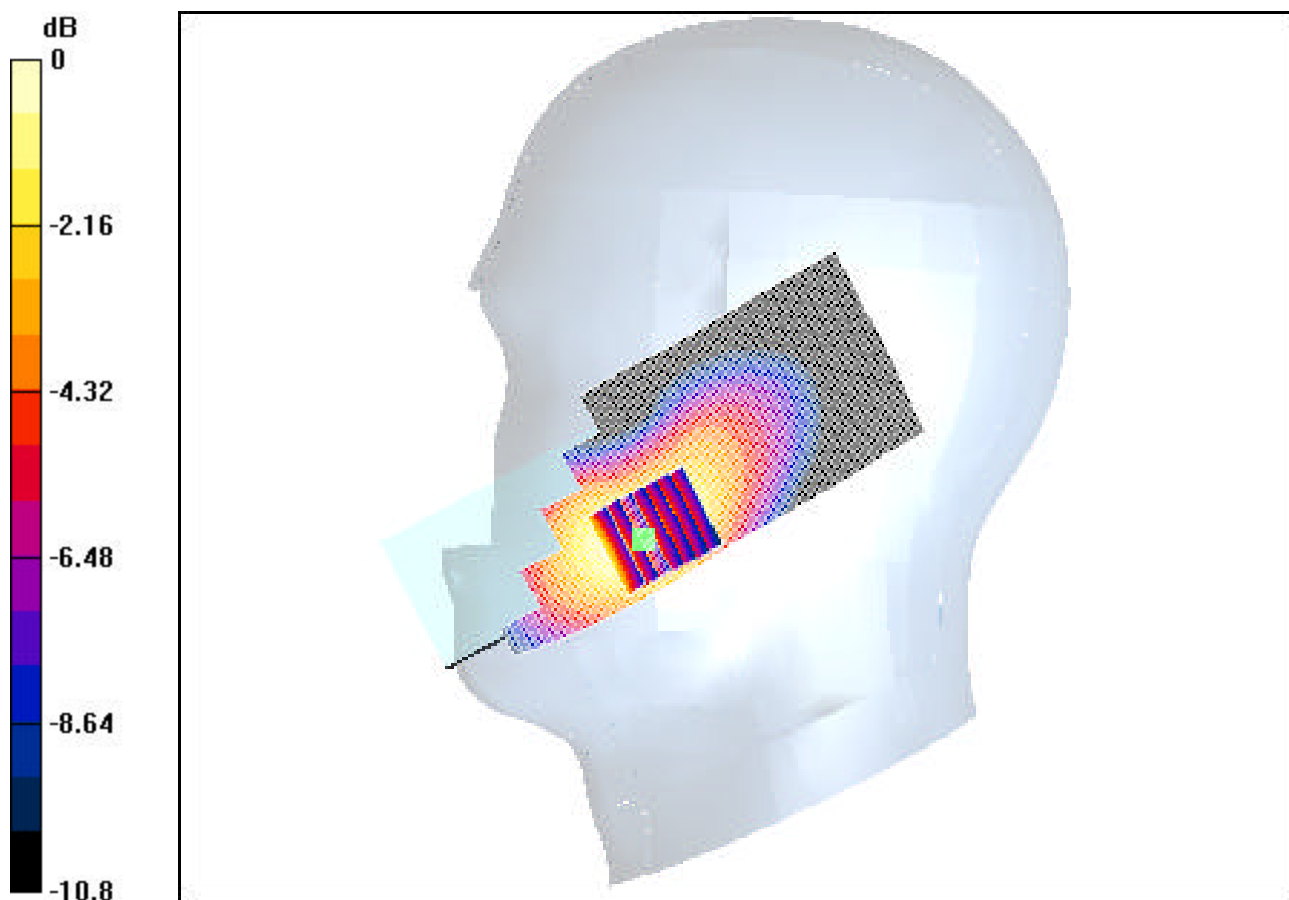
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.817 mW/g; SAR(10 g) = 0.543 mW/g

Reference Value = 9.84 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJ VX7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Tilt Ch. 0383, Standard Battery, Fixed Antenna

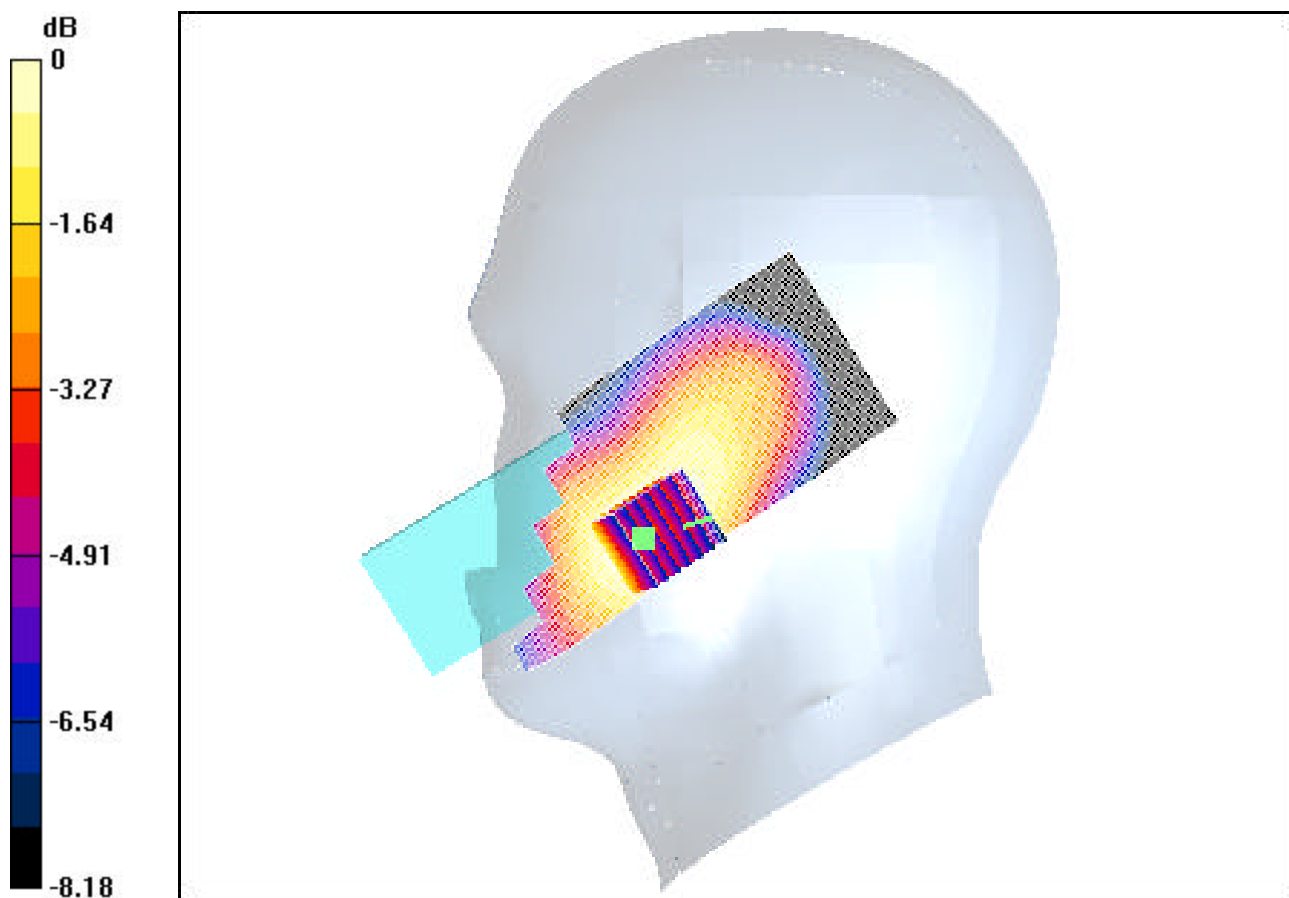
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.124 mW/g

Reference Value = 9.66 V/m



0 dB = 0.175mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: AMPS; Frequency: 848.97 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Touch, Ch. 0383, Standard Battery, Fixed Antenna

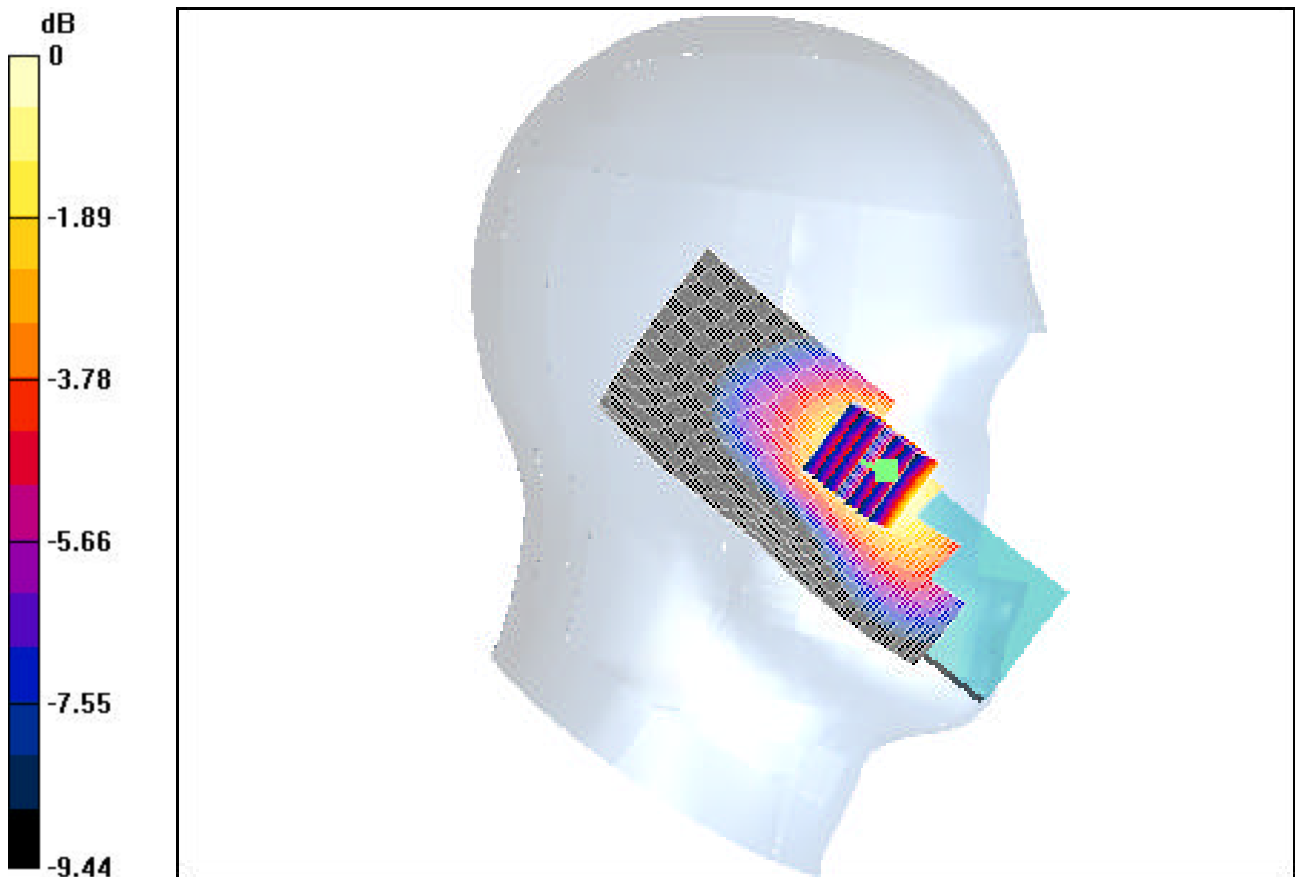
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.736 mW/g; SAR(10 g) = 0.468 mW/g

Reference Value = 9.81 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: LGE BEJVB7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Tilt, Ch. 0383, Standard Battery, Fixed Antenna

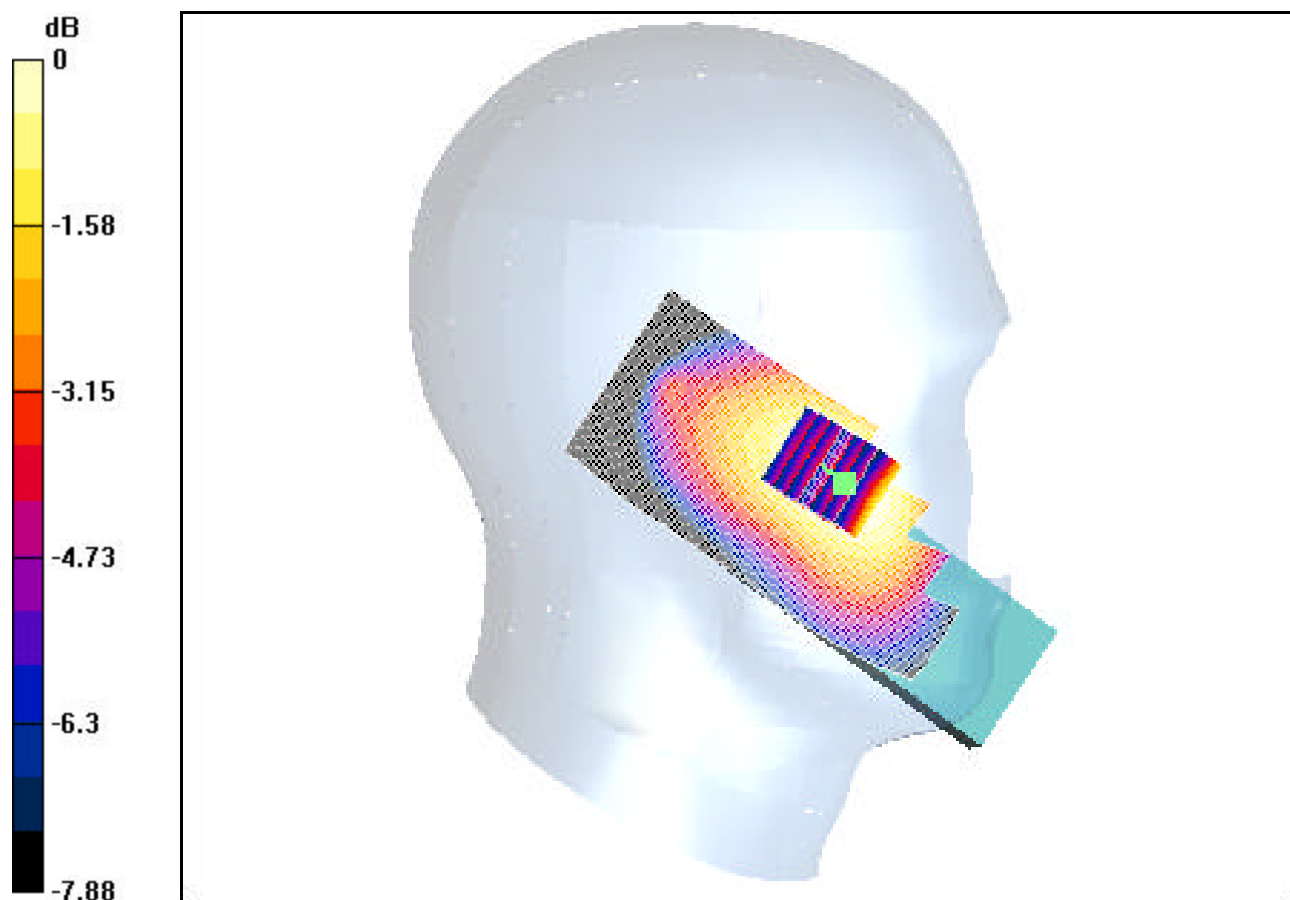
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.095 mW/g

Reference Value = 8.05 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Touch, Ch. 0383, Standard Battery, Fixed Antenna

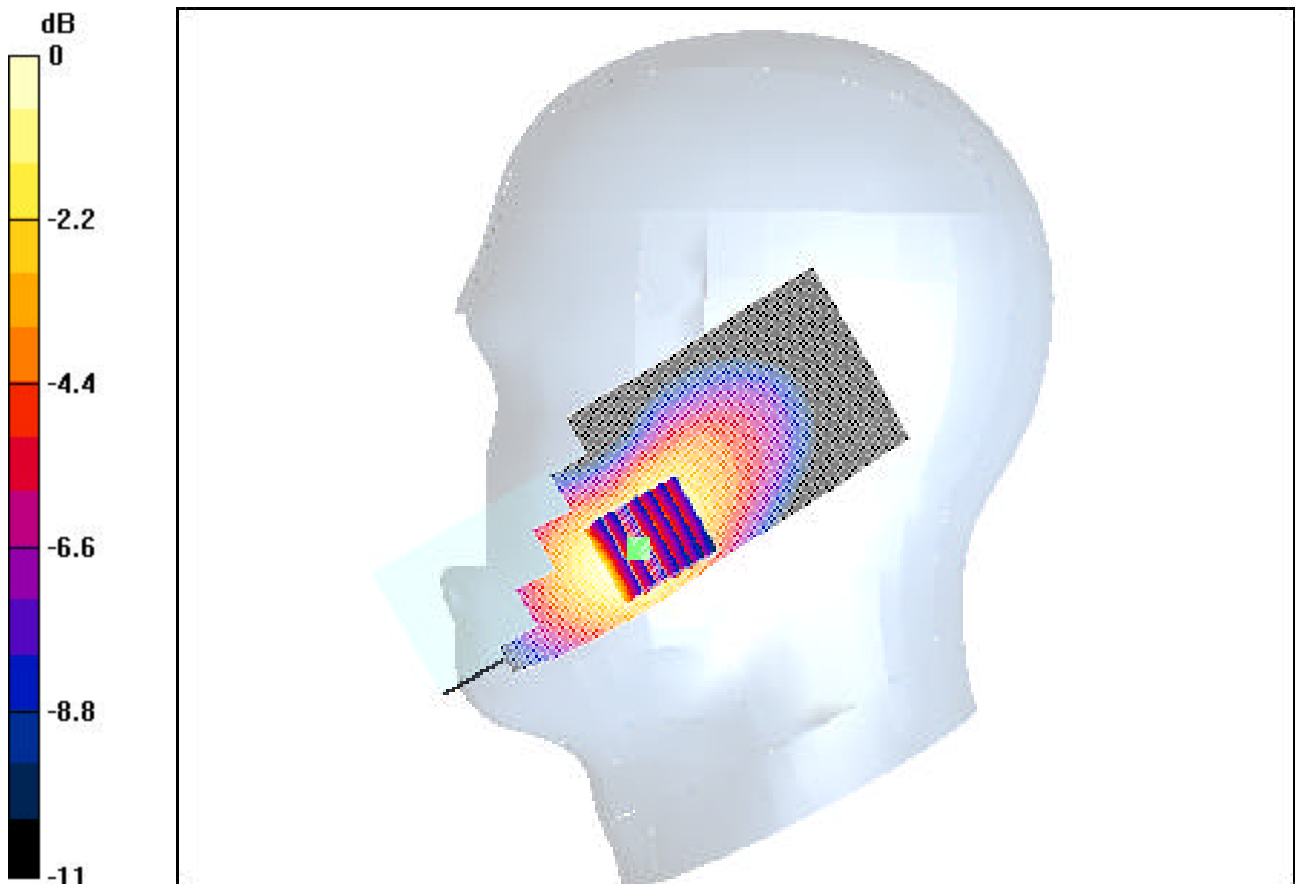
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.767 W/kg

SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.342 mW/g

Reference Value = 8.21 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Tilt, Ch. 0383, Standard Battery, Fixed Antenna

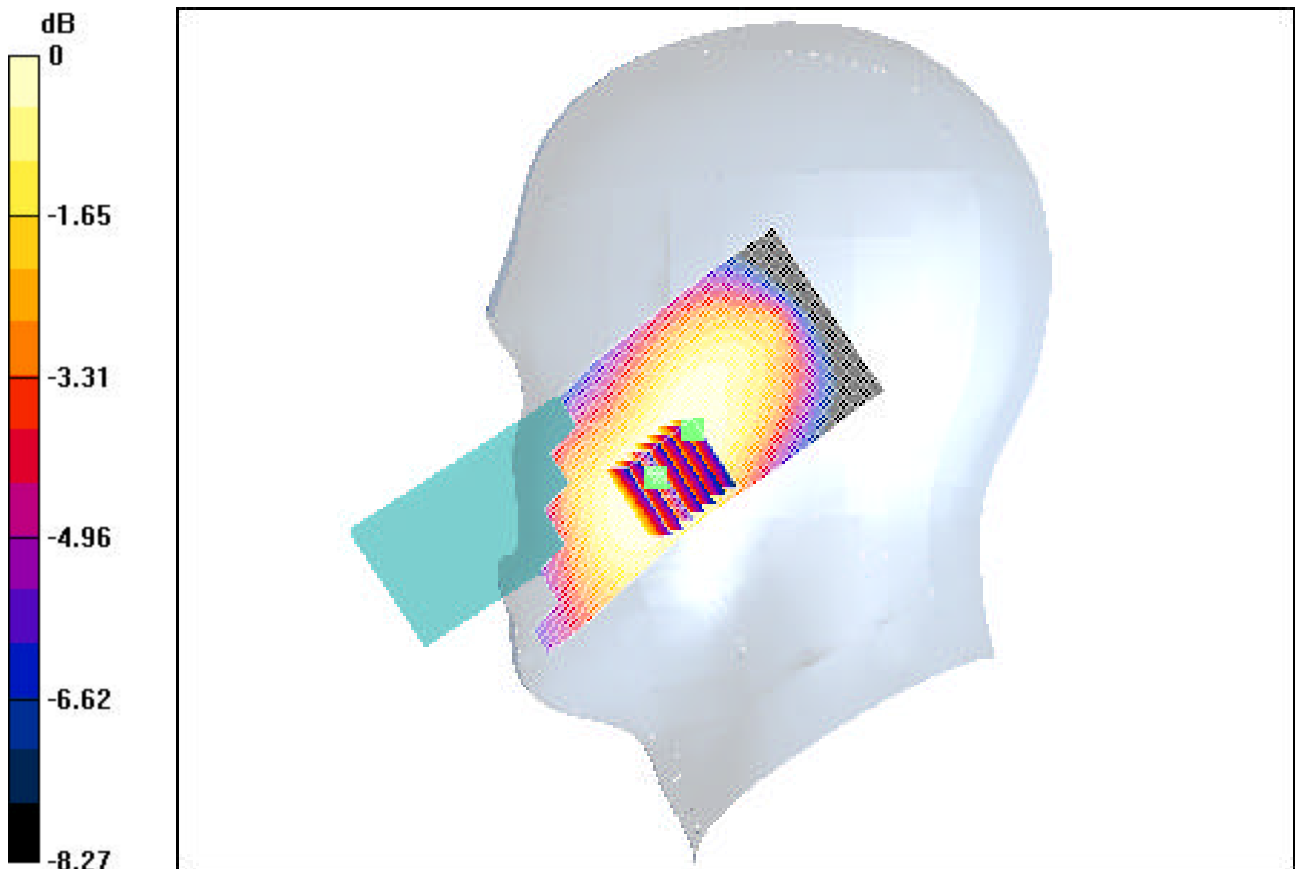
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.132 W/kg

SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.068 mW/g

Reference Value = 7.72 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Touch, Ch.0383, Standard Battery, Fixed Antenna

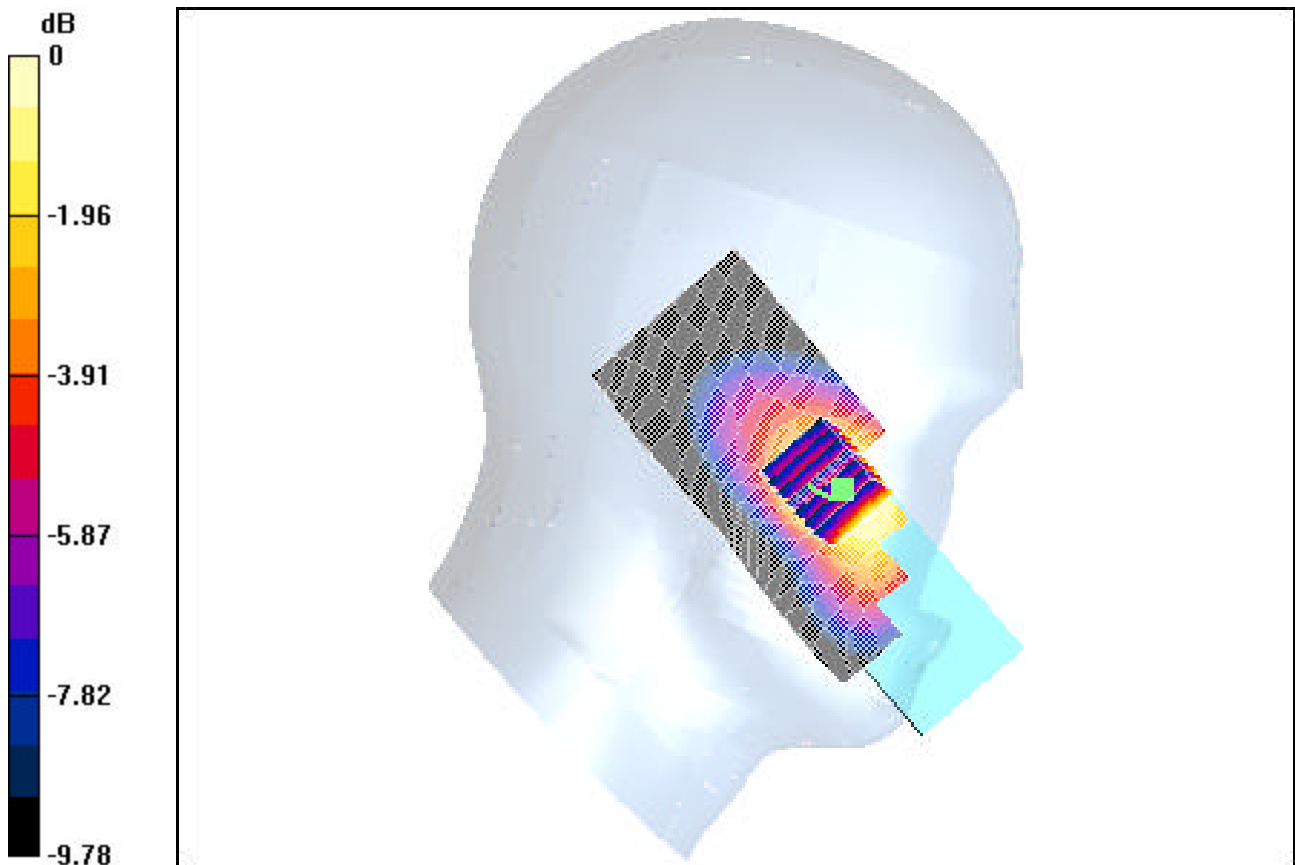
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.492 mW/g; SAR(10 g) = 0.326 mW/g

Reference Value = 7.88 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: Cellular CDMA; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Tilt, Ch.0383, Standard Battery, Fixed Antenna

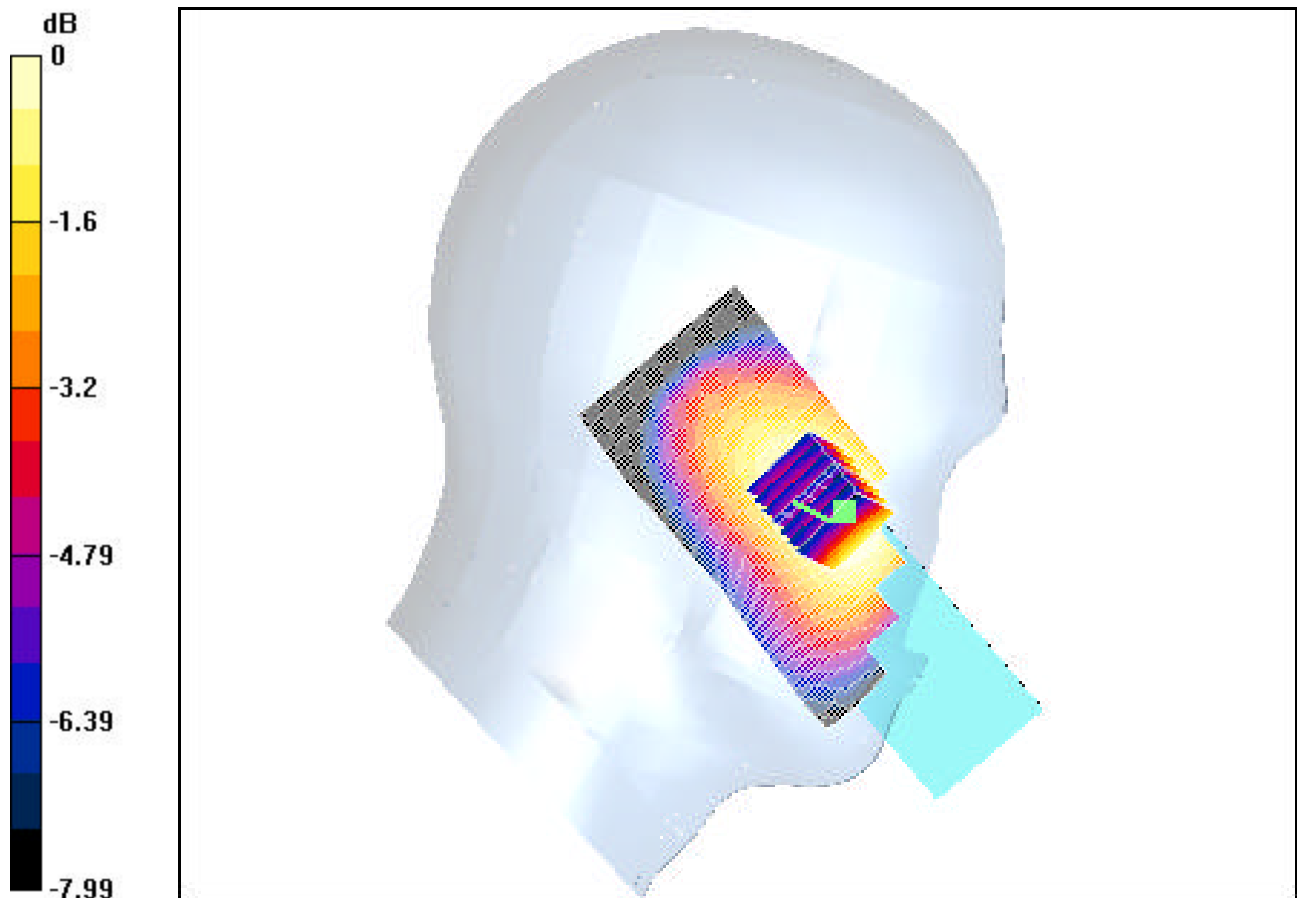
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.086 mW/g

Reference Value = 7.79 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 39.83$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-11-2003; Ambient Temp: 22.7°C; Tissue Temp: 19.6°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Touch, Ch.0025, Standard Battery, Fixed Antenna

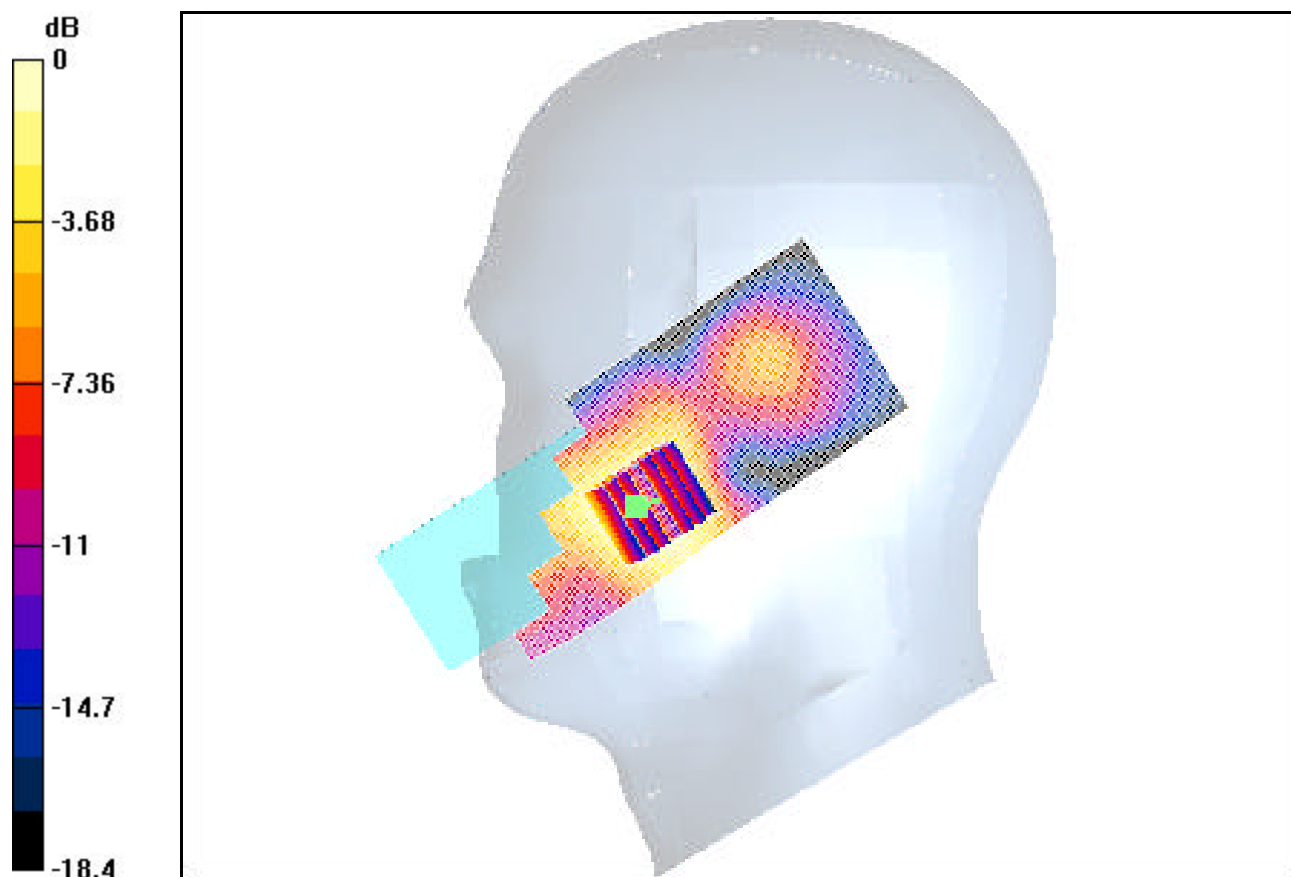
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.278 mW/g

Reference Value = 8.94 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

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

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 39.83$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-11-2003; Ambient Temp: 22.7°C; Tissue Temp: 19.6°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Tilt, Ch.0600, Standard Battery, Fixed Antenna

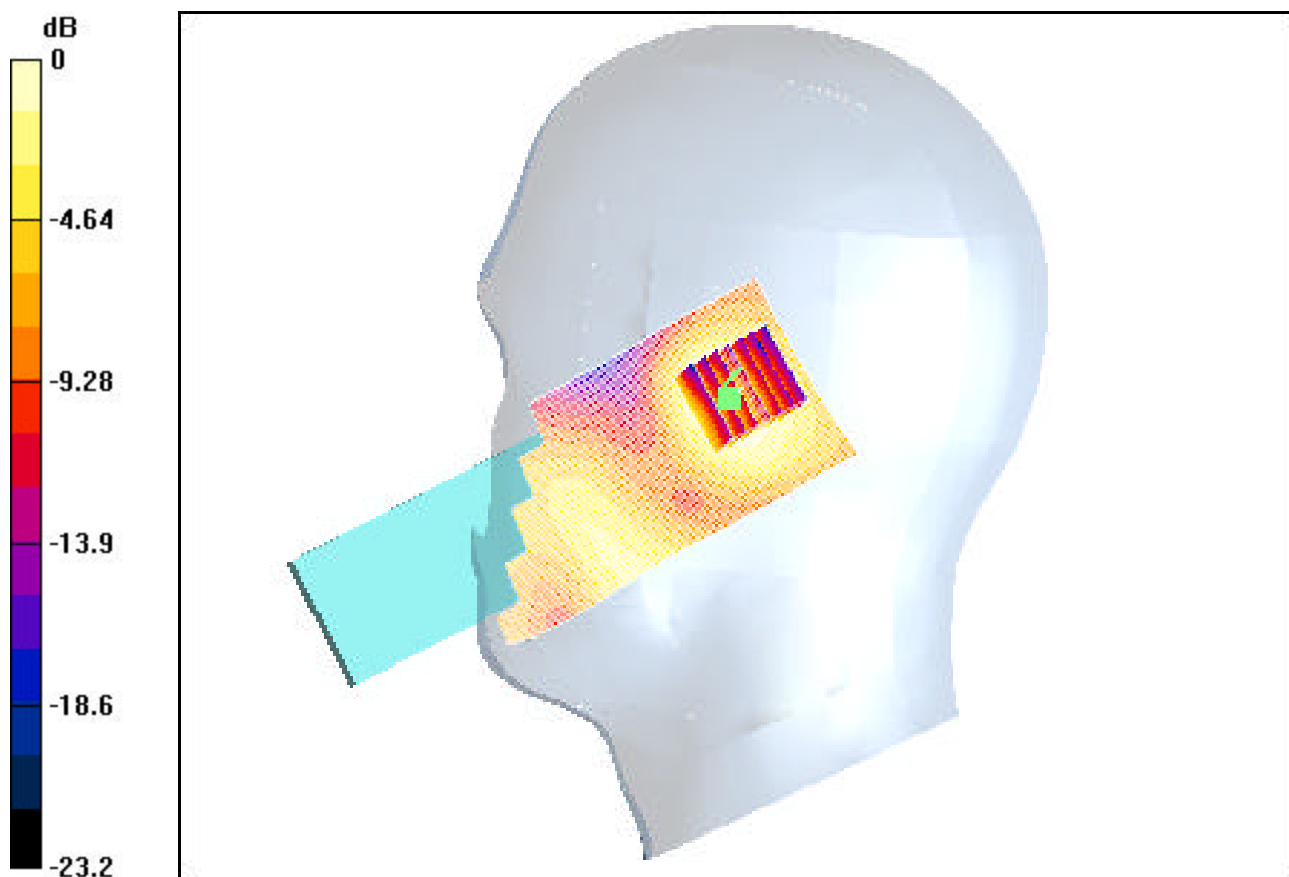
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.062 mW/g

Reference Value = 8.11 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 39.83$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-11-2003; Ambient Temp: 22.7°C; Tissue Temp: 19.6°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Touch, Ch. 0025, Standard Battery, Fixed Antenna

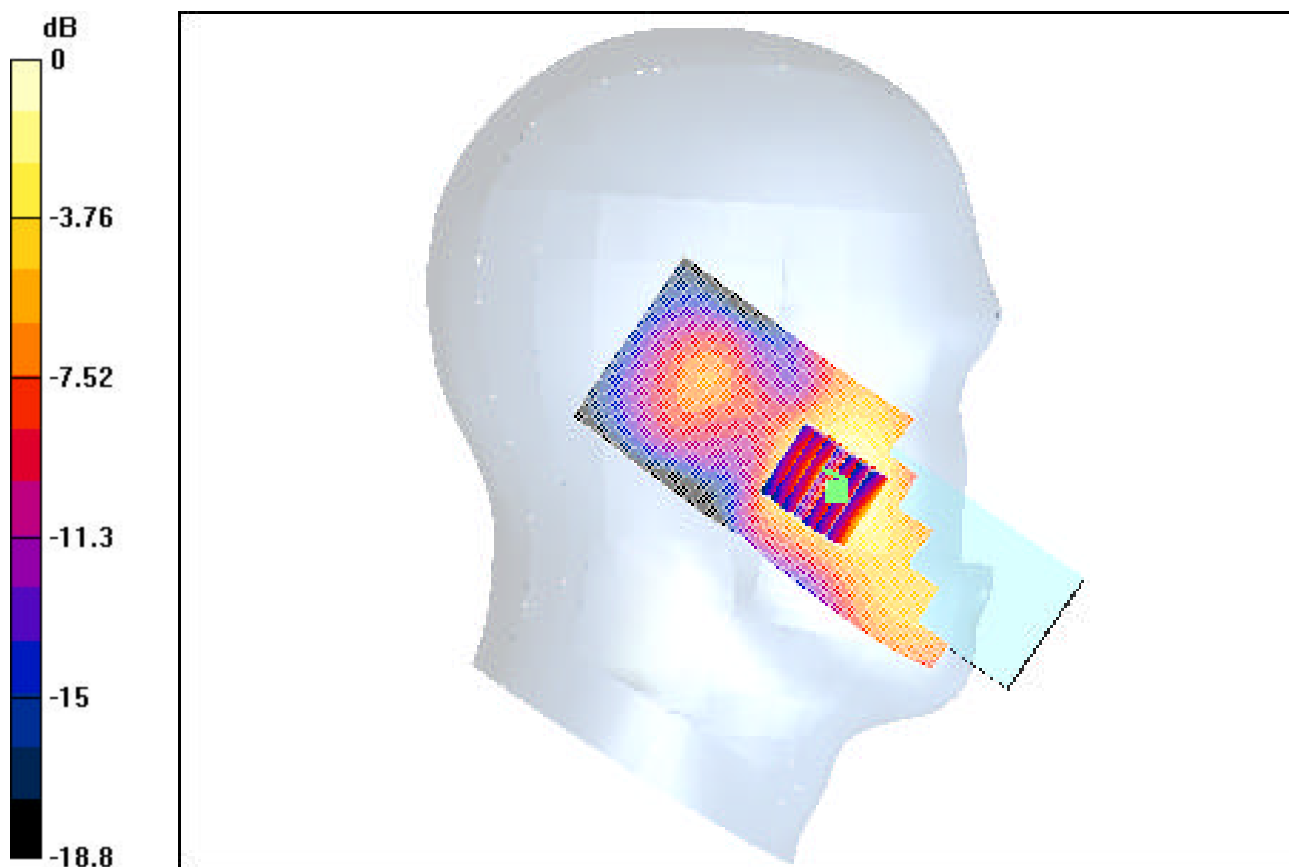
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.331 mW/g

Reference Value = 9.46 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

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

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 39.83$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-11-2003; Ambient Temp: 22.7°C; Tissue Temp: 19.6°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Tilt, Ch. 0600, Standard Battery, Fixed Antenna

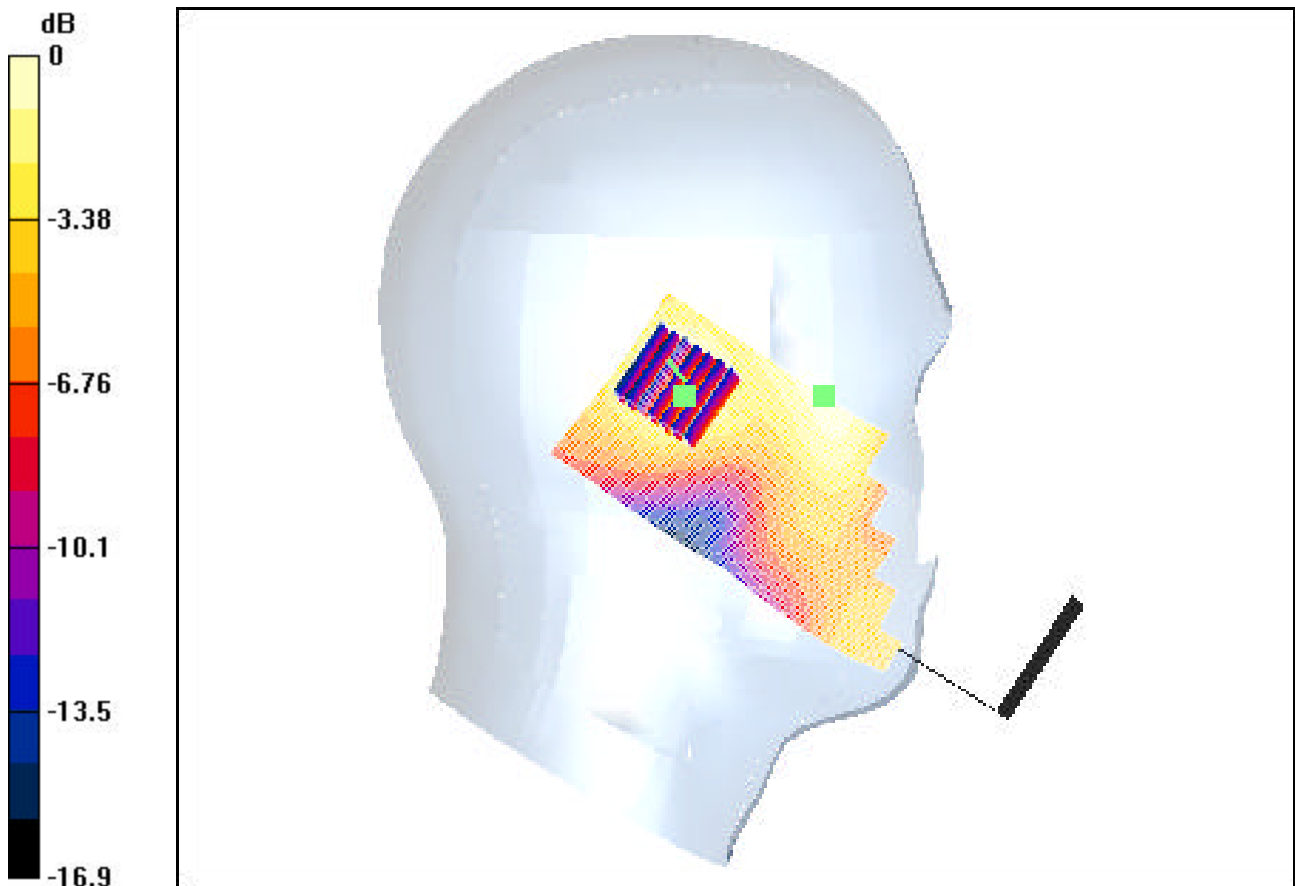
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.091 mW/g

Reference Value = 6.26 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Muscle ($\sigma = 0.98$ mho/m, $\epsilon_r = 54.10$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-12-2003; Ambient Temp: 22.7°C; Tissue Temp: 20.4°C

Probe: ES3DV2 - SN3022; ConvF(6, 6, 6); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Body, 1.5cm. Space, Ch. 0383, Standard Battery, Fixed Antenna

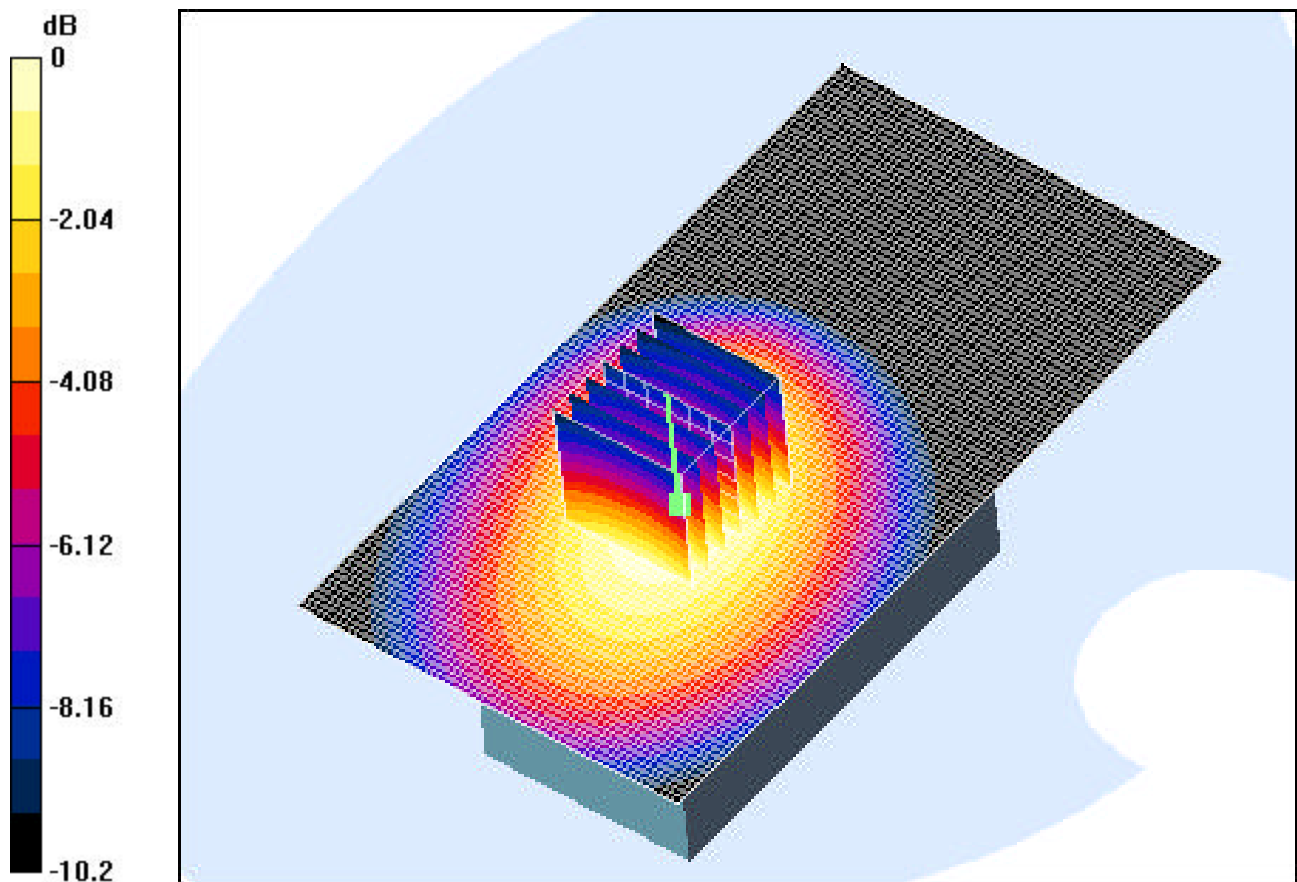
Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.723 mW/g

Reference Value = 26.7 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Muscle ($\sigma = 0.98$ mho/m, $\epsilon_r = 54.10$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-12-2003; Ambient Temp: 22.7°C; Tissue Temp: 20.4°C

Probe: ES3DV2 - SN3022; ConvF(6, 6, 6); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Body, 1.5cm. Space, Ch. 0777, Standard Battery, Fixed Antenna

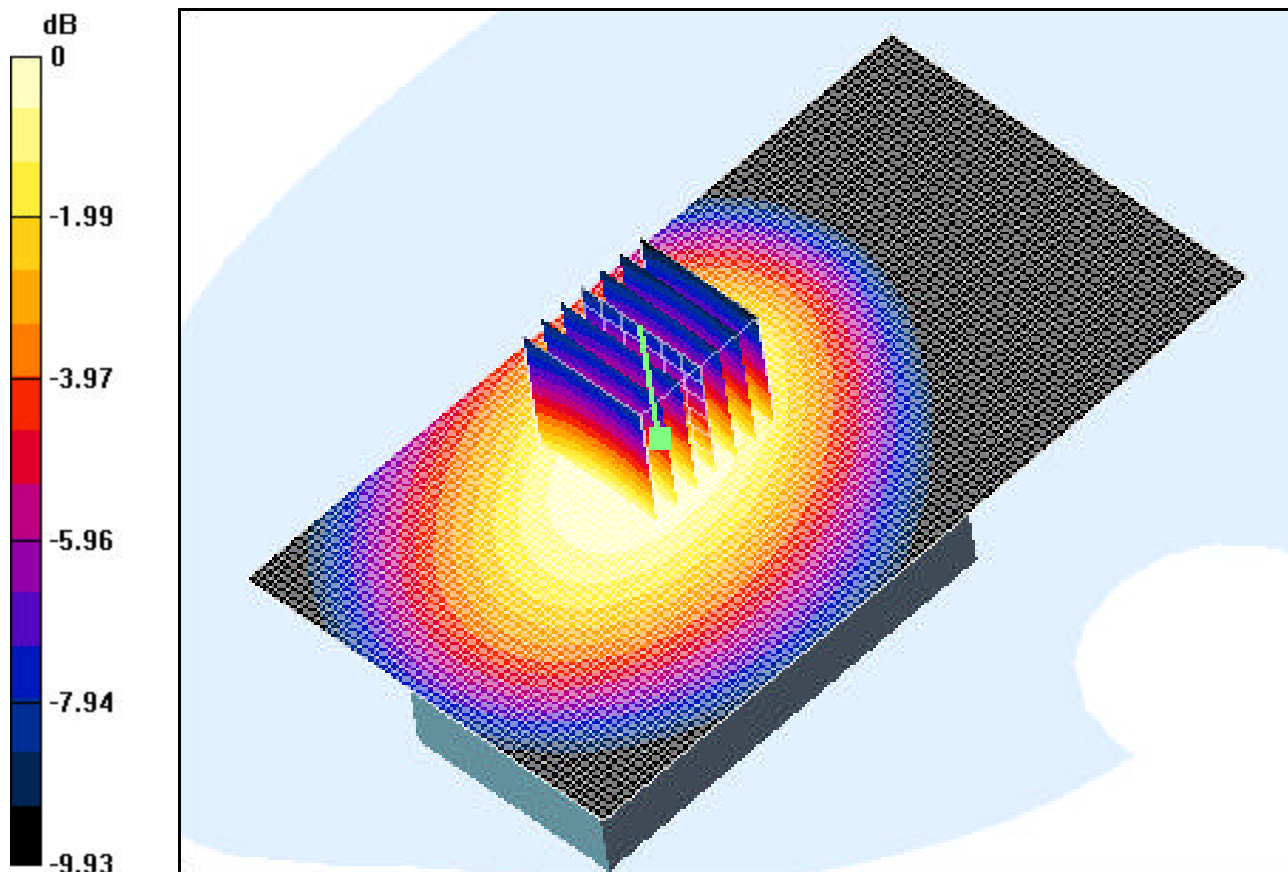
Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.447 mW/g

Reference Value = 17.96 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ($\sigma = 1.54$ mho/m, $\epsilon_r = 53.96$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-13-2003; Ambient Temp: 22.8°C; Tissue Temp: 20.2°C

Probe: ES3DV2 - SN3022; ConvF(4.5, 4.5, 4.5); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Body, 1.5cm. Space, Ch. 0025, Standard Battery, Fixed Antenna

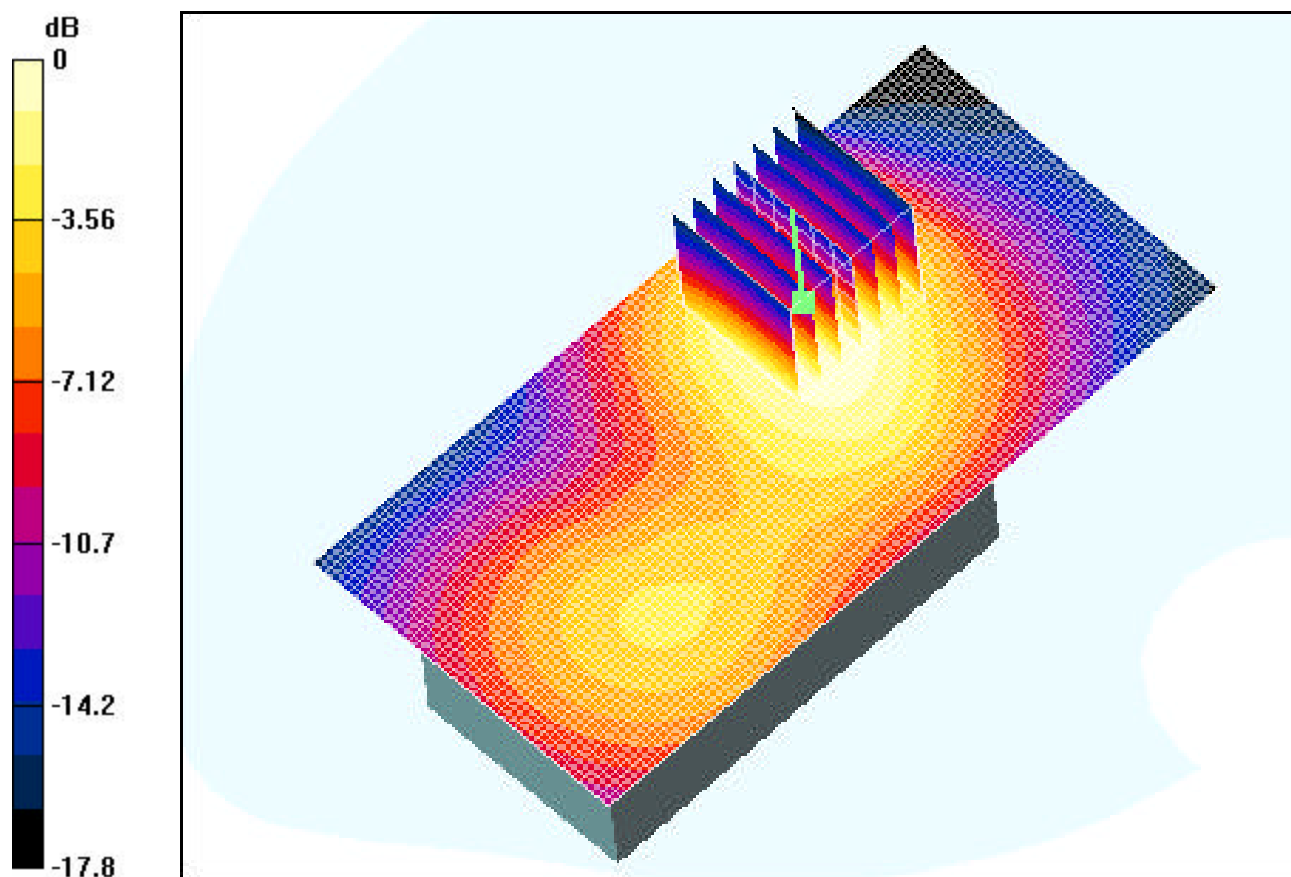
Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.289 mW/g

Reference Value = 15.95 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJ VX7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Right Touch, Ch. 0383, Standard Battery, Fixed Antenna

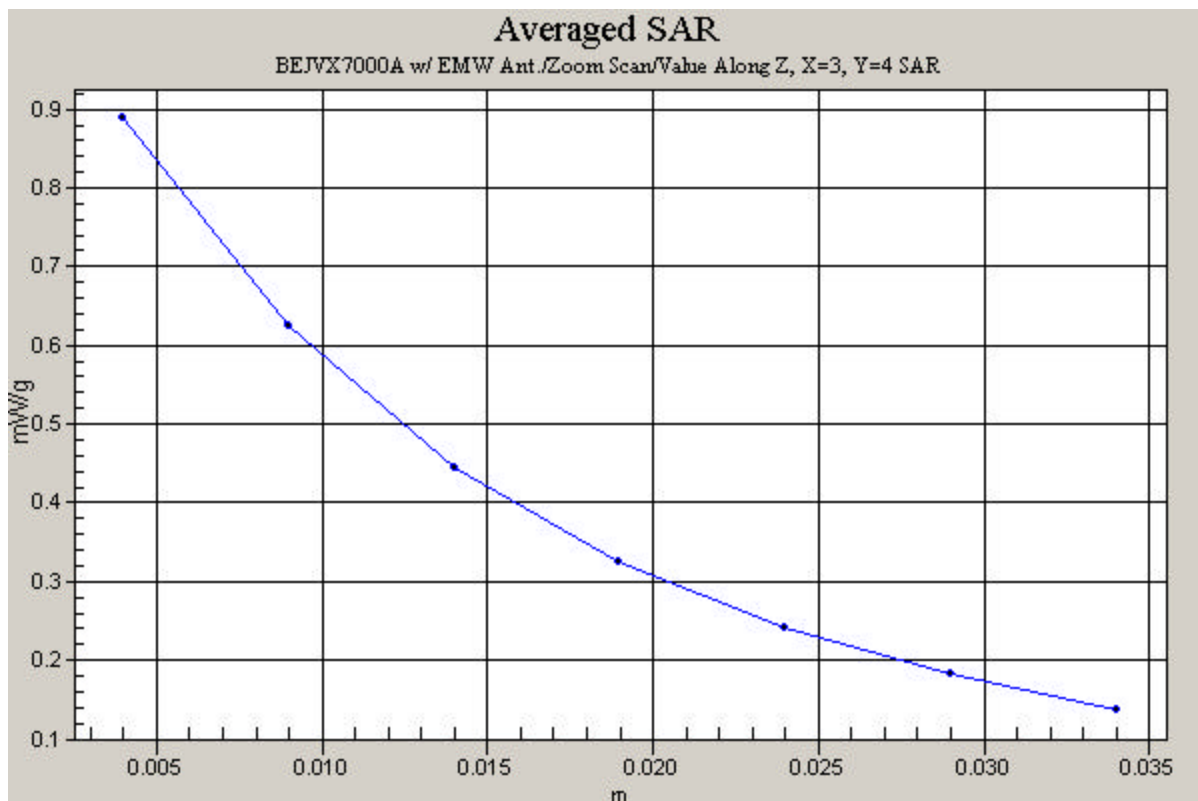
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.817 mW/g; SAR(10 g) = 0.543 mW/g

Reference Value = 9.84 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJVB7000A; Type: TRI MODE; Serial: #1

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 39.83$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 11-11-2003; Ambient Temp: 22.7°C; Tissue Temp: 19.6°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Left Touch, Ch. 0025, Standard Battery, Fixed Antenna

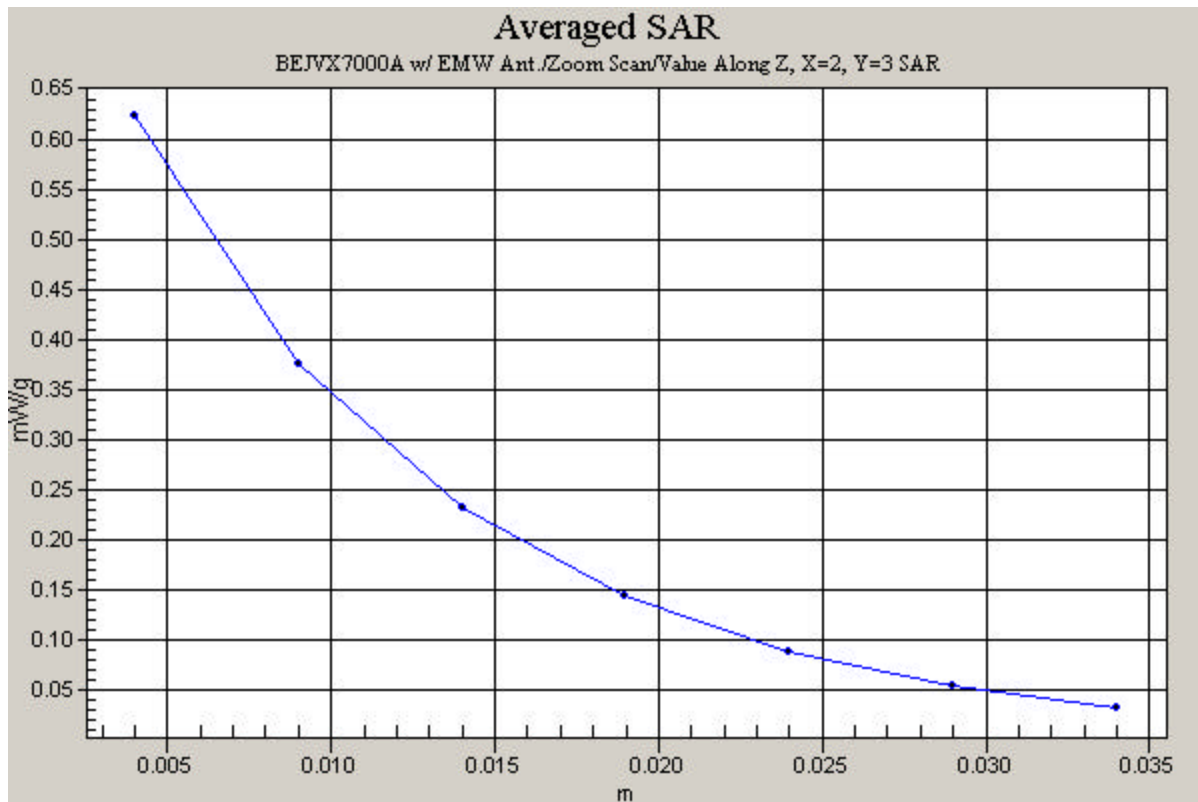
Area Scan (51x131x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.331 mW/g

Reference Value = 9.46 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJ VX7000A; Type: TRI MODE; Serial: #1

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

Medium: 835 Muscle ($\sigma = 0.98$ mho/m, $\epsilon_r = 54.10$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-12-2003; Ambient Temp: 22.7°C; Tissue Temp: 20.4°C

Probe: ES3DV2 - SN3022; ConvF(6, 6, 6); Calibrated: 9/23/2003

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DAS4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Body, 1.5cm.Space, Ch. 0383, Standard Battery, Fixed Antenna

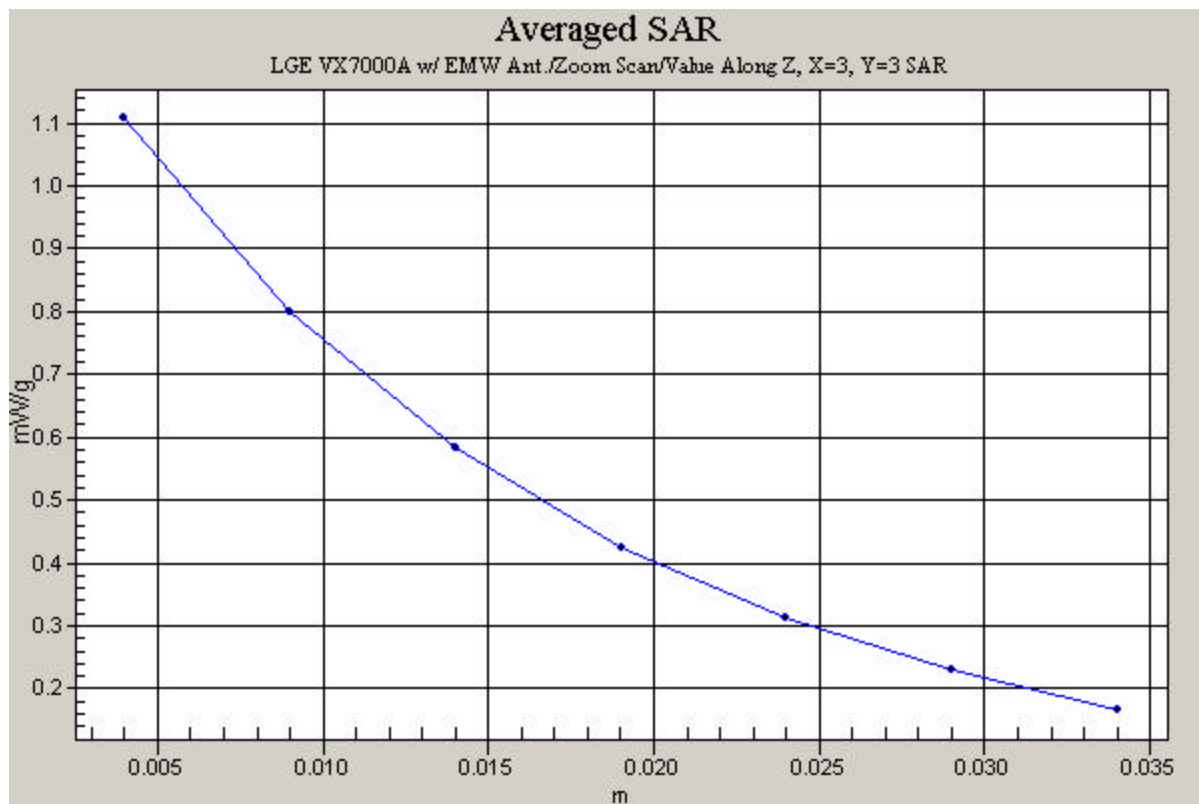
Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.723 mW/g

Reference Value = 26.7 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: BEJ VX7000A; Type: TRI MODE; Serial: #1

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ($\sigma = 1.54$ mho/m, $\epsilon_r = 53.96$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-13-2003; Ambient Temp: 22.8°C; Tissue Temp: 20.2°C

Probe: ES3DV2 - SN3022; ConvF(4.5, 4.5, 4.5); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Body, 1.5cm. Space, Ch. 0025, Standard Battery, Fixed Antenna

Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.289 mW/g

Reference Value = 15.95 V/m

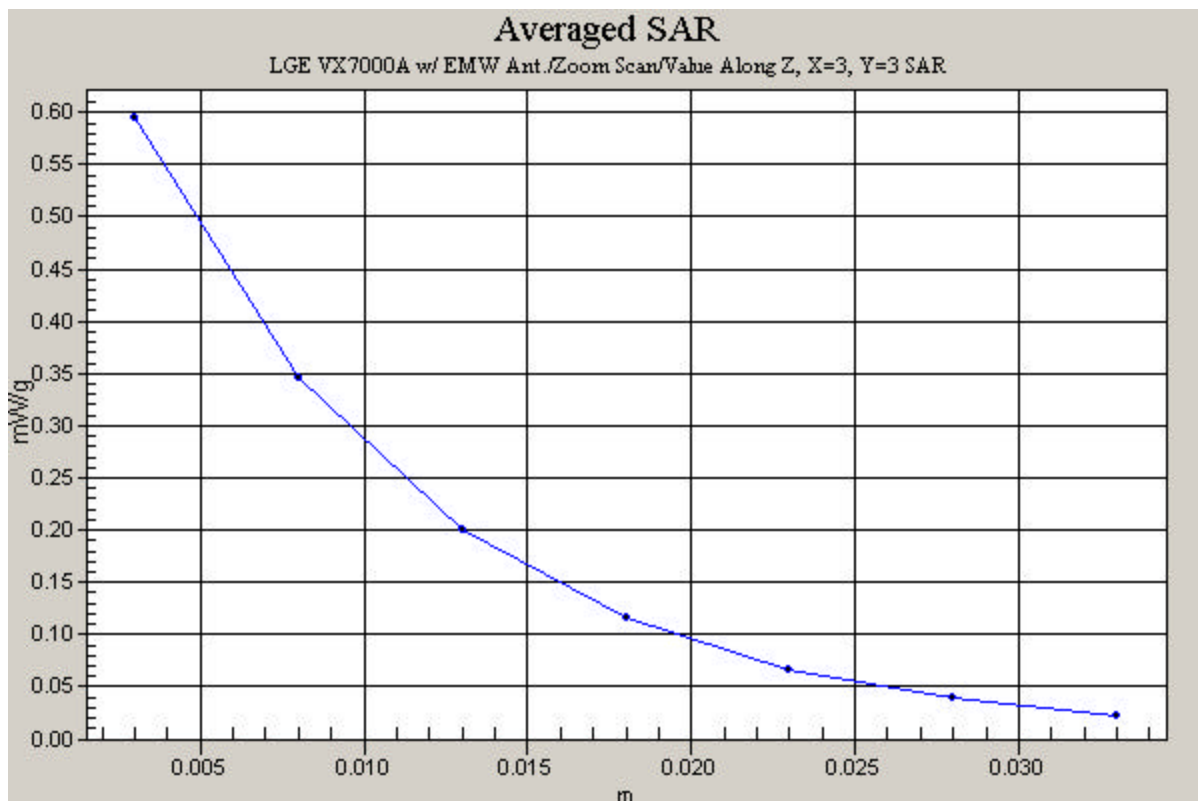


EXHIBIT C – DIPOLE VALIDATION

PCTEST SAR REPORT	 FCC Measurement Report 			Reviewed by: Quality Manager
SAR Filename: SAR-231027529.BEJ	Test Dates: November 10-13, 2003	Phone Type: Tri-Mode Dual-Band Phone	FCC ID: BEJXX7000A	Page 38 of 39

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 406

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

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 40.86$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-10-2003; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: ES3DV2 - SN3022; ConvF(6.1, 6.1, 6.1); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Dipole Validation; Frequency: 835MHz.; Antenna Input Power: 250mW

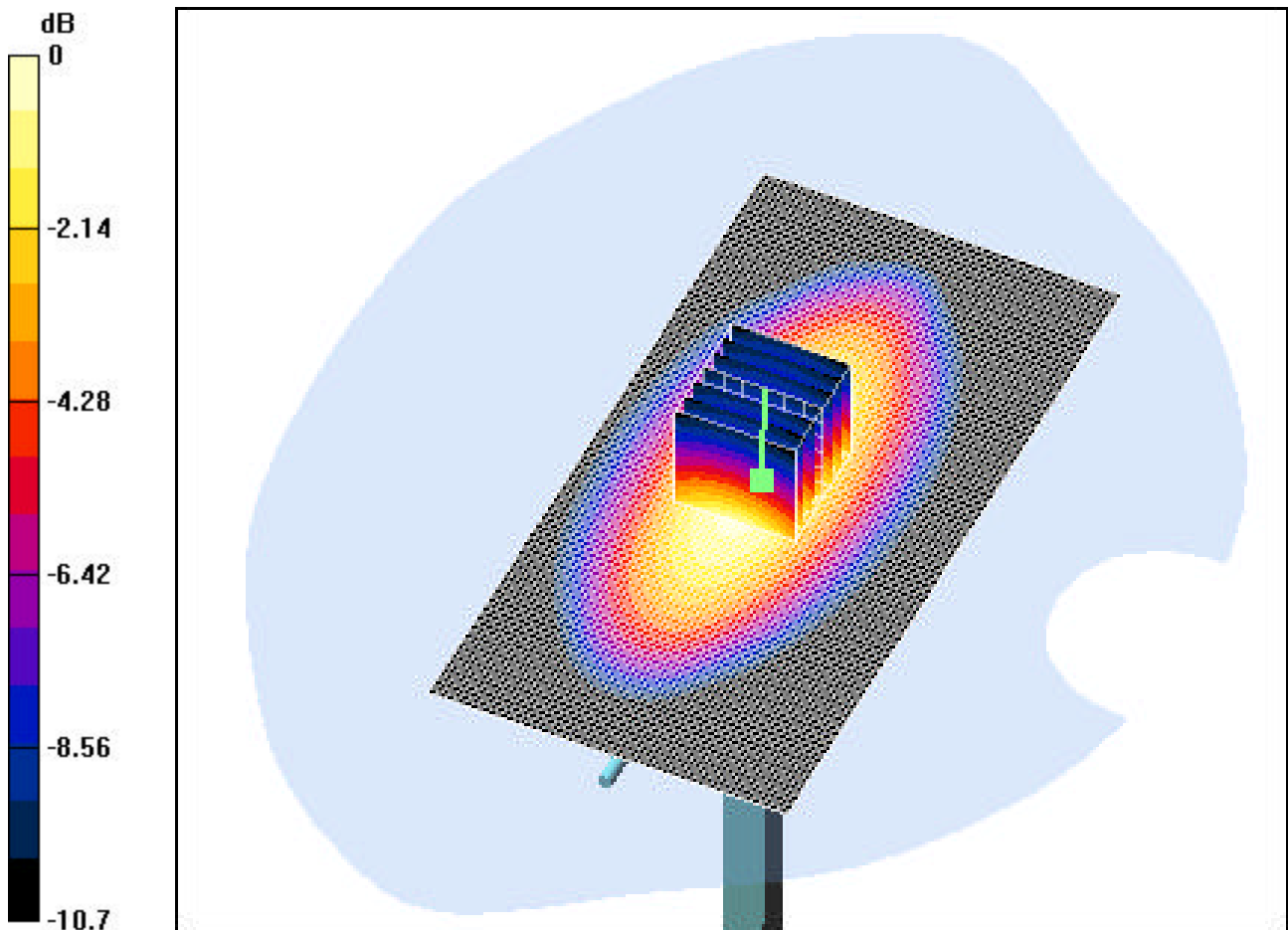
Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.58 mW/g

Reference Value = 57.2 V/m



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 502

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

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 39.83$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 11-11-2003; Ambient Temp: 22.7°C; Tissue Temp: 19.6°C

Probe: ES3DV2 - SN3022; ConvF(5, 5, 5); Calibrated: 9/23/2003

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE3 SN330; Calibrated: 12/1/2002

Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.8 Build 62

Dipole Validation; Frequency: 1900MHz.; Antenna Input Power: 250mW

Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 10.34 mW/g; SAR(10 g) = 5.33 mW/g

Reference Value = 95.8 V/m

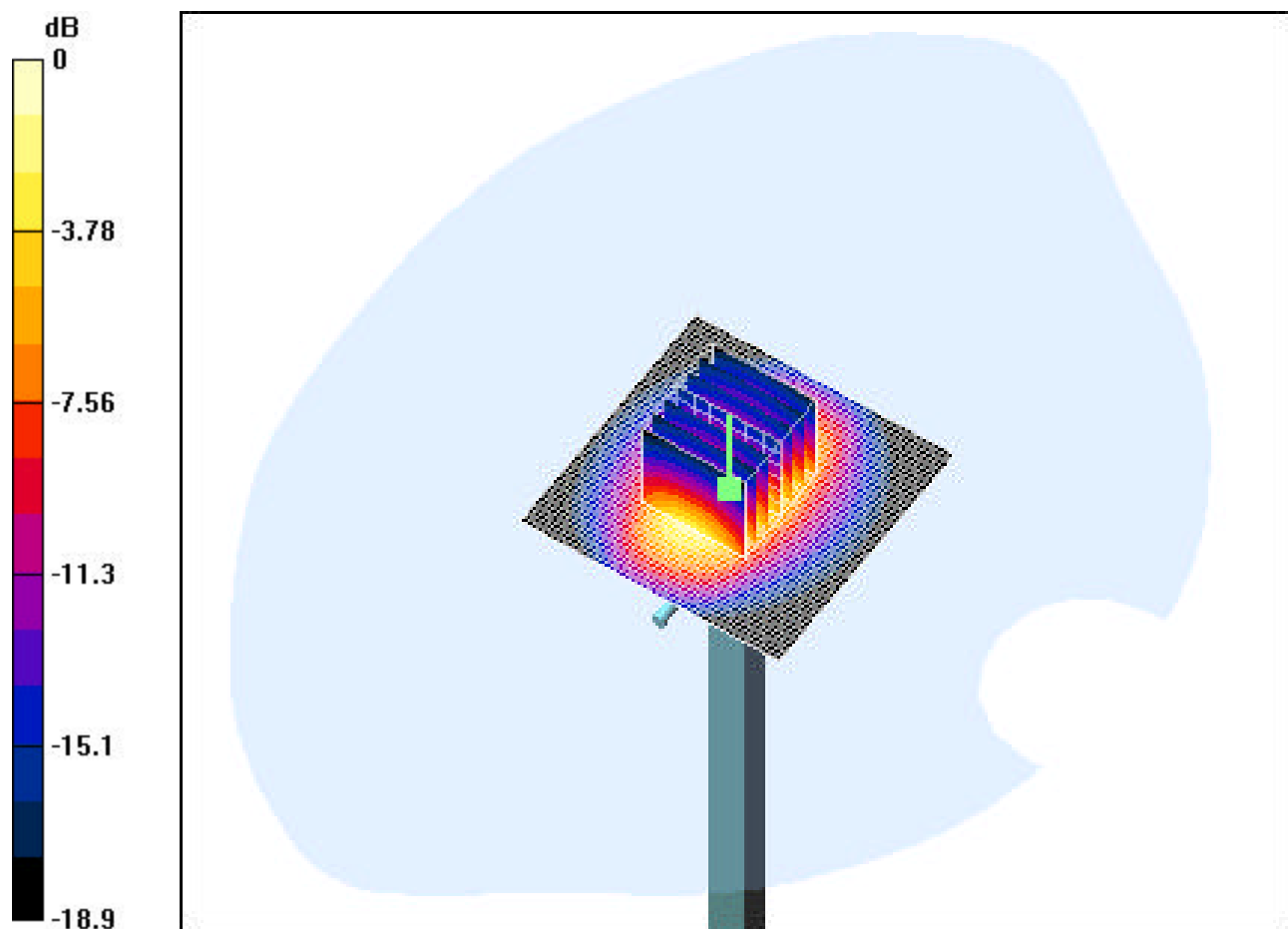


EXHIBIT D – PROBE CALIBRATION

PCTEST SAR REPORT	 FCC Measurement Report 			Reviewed by: Quality Manager
SAR Filename: SAR-231027529.BEJ	Test Dates: November 10-13, 2003	Phone Type: Tri-Mode Dual-Band Phone	FCC ID: BEJXX7000A	Page 39 of 39

Client

PC Test

CALIBRATION CERTIFICATE

Object(s)

ES3DV2 - SN 3022

Calibration procedure(s)

QA CAL-01 v2
Calibration procedure for dosimetric E-field probes

Calibration date:

September 23, 2003

Condition of the calibrated item

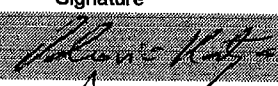
In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 international standard.

All calibrations have been conducted in the closed laboratory facility: environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM E4419B	GB41293874	2-Apr-03 (METAS, No 252-0250)	Apr-04
Power sensor E4412A	MY41495277	2-Apr-03 (METAS, No 252-0250)	Apr-04
Reference 20 dB Attenuator	SN: 5086 (20b)	3-Apr-03 (METAS No. 251-0340)	Apr-04
Fluke Process Calibrator Type 702	SN: 6295803	8-Sep-03 (Sintrel SCS No. E-030020)	Sep-04
Power sensor HP 8481A	MY41092180	18-Sep-02 (Agilent, No. 20020918)	In house check: Oct 03
RF generator HP 8684C	US3642U01700	4-Aug-99 (SPEAG, in house check Aug-02)	In house check: Aug-05
Network Analyzer HP 8753E	US37390585	18-Oct-01 (Agilent, No. 24BR1033101)	In house check: Oct 03

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Laboratory Director	
Approved by:	Niels Kuster	Quality Manager	

Date issued: October 5, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

Probe ES3DV2

SN:3022

Manufactured:	April 15, 2003
Last calibration:	September 23, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ES3DV2 SN:3022

Sensitivity in Free Space

Diode Compression

NormX	1.00 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	95	mV
NormY	1.04 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	95	mV
NormZ	0.98 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	95	mV

Sensitivity in Tissue Simulating Liquid

Head **900 MHz** $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\% \text{ mho/m}$
 Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	6.1 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.1 $\pm 9.5\%$ (k=2)	Alpha	0.32
ConvF Z	6.1 $\pm 9.5\%$ (k=2)	Depth	1.65

Head **1800 MHz** $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\% \text{ mho/m}$
 Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	5.0 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	5.0 $\pm 9.5\%$ (k=2)	Alpha	0.25
ConvF Z	5.0 $\pm 9.5\%$ (k=2)	Depth	2.30

Boundary Effect

Head **900 MHz** Typical SAR gradient: 5 % per mm

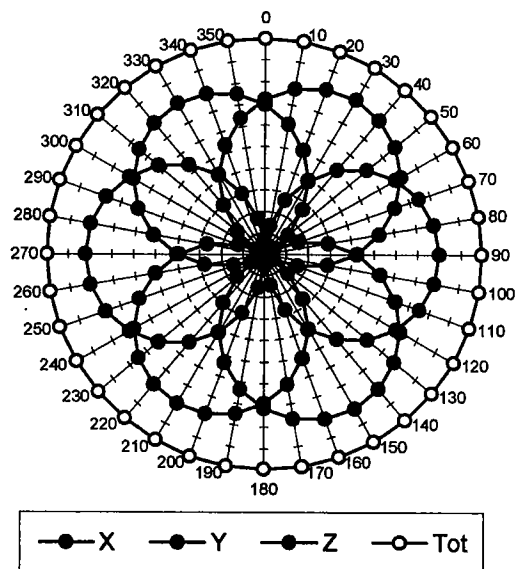
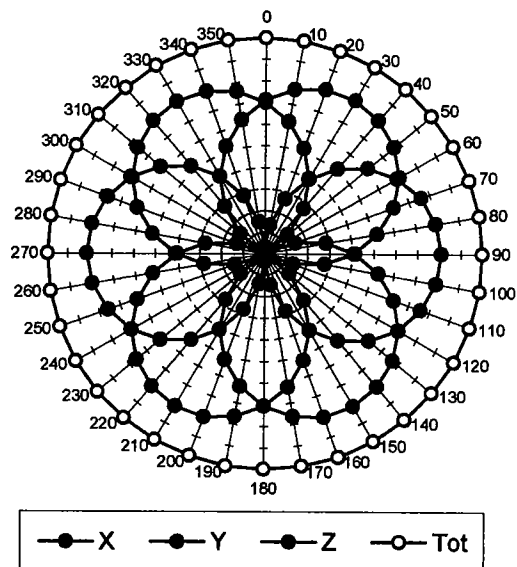
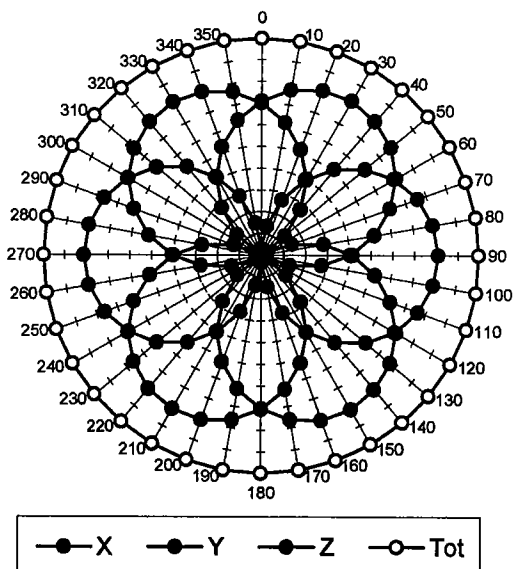
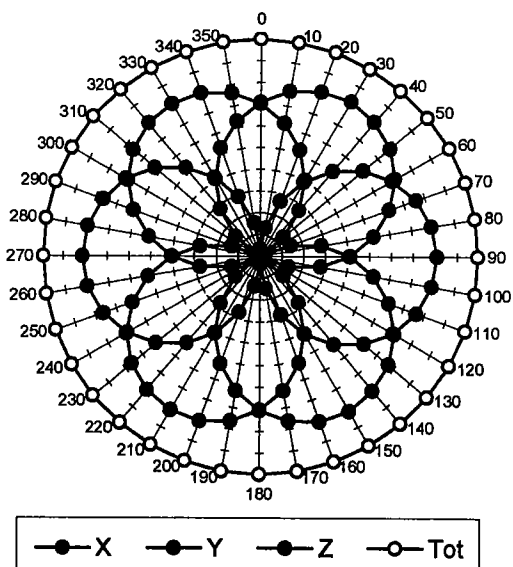
Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%] Without Correction Algorithm		5.5	2.5
SAR _{be} [%] With Correction Algorithm		0.1	0.4

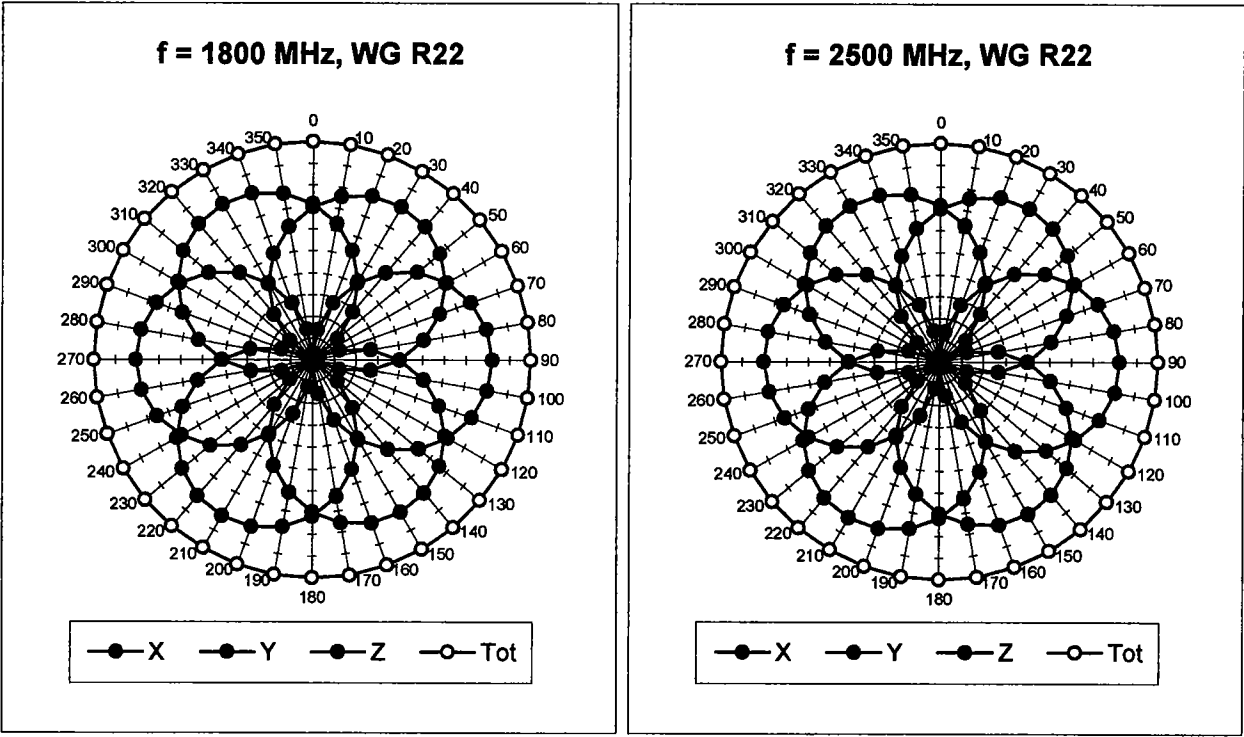
Head **1800 MHz** Typical SAR gradient: 10 % per mm

Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%] Without Correction Algorithm		7.1	4.4
SAR _{be} [%] With Correction Algorithm		0.0	0.1

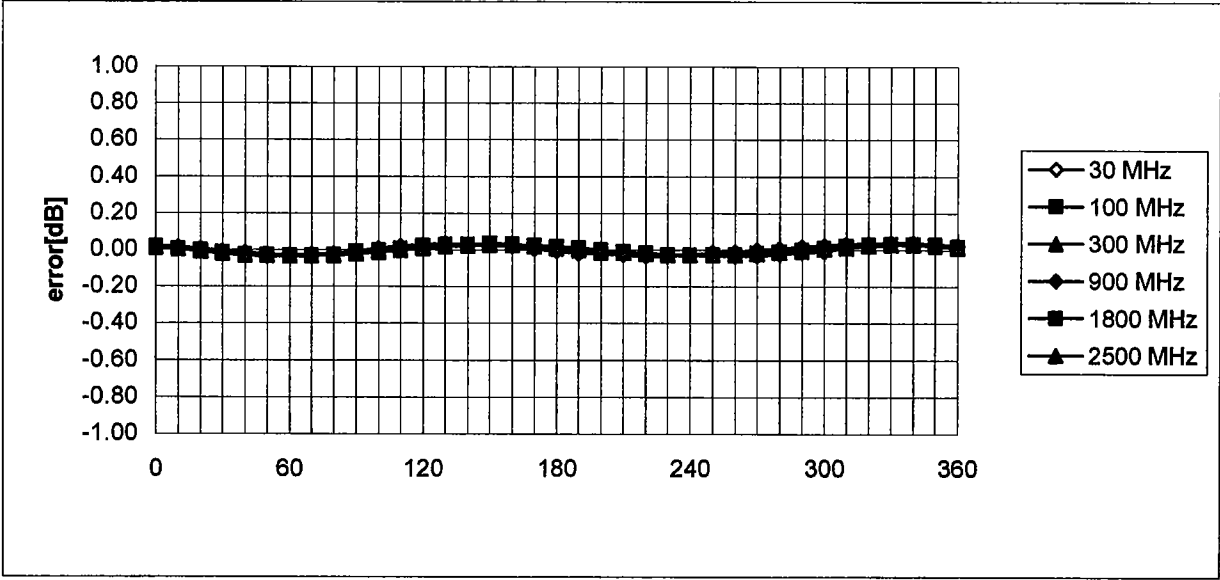
Sensor Offset

Probe Tip to Sensor Center	2.0	mm
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Receiving Pattern (ϕ , $\theta = 0^\circ$)**f = 30 MHz, TEM cell ifi110****f = 100 MHz, TEM cell ifi110****f = 300 MHz, TEM cell ifi110****f = 900 MHz, TEM cell ifi110**

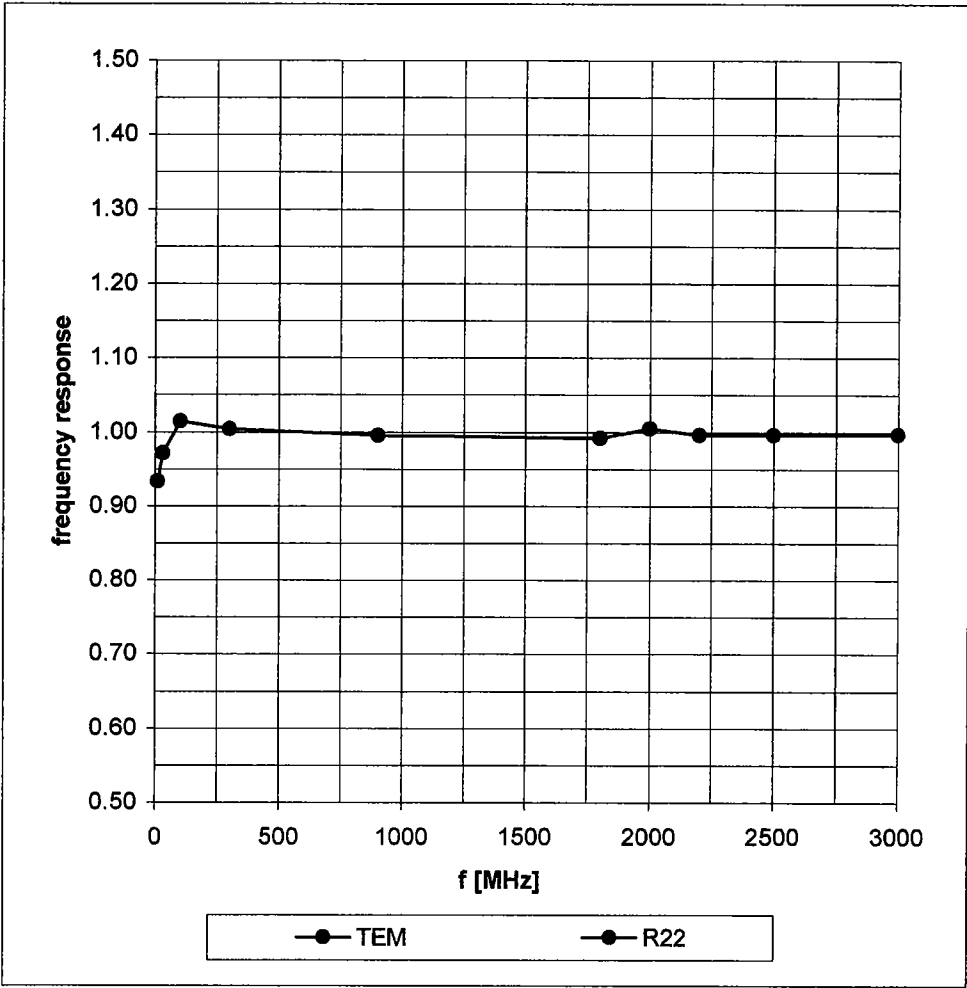


Isotropy Error (ϕ), $\theta = 0^\circ$

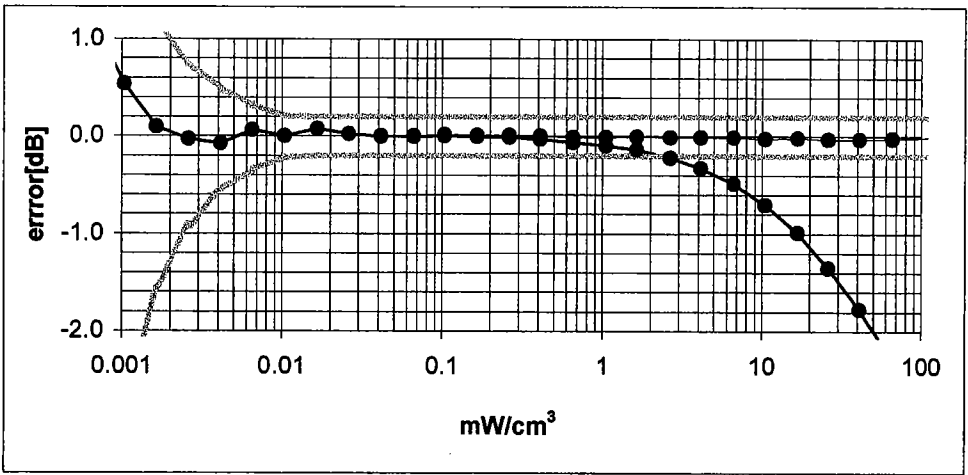
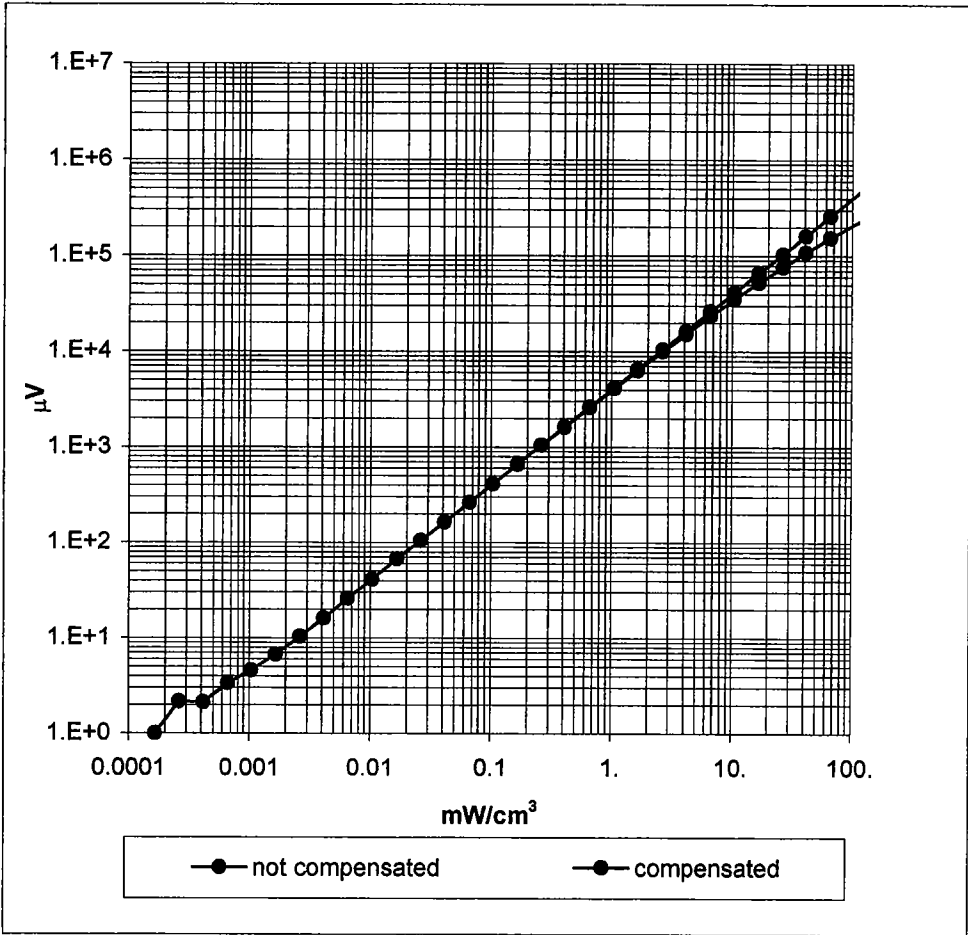


Frequency Response of E-Field

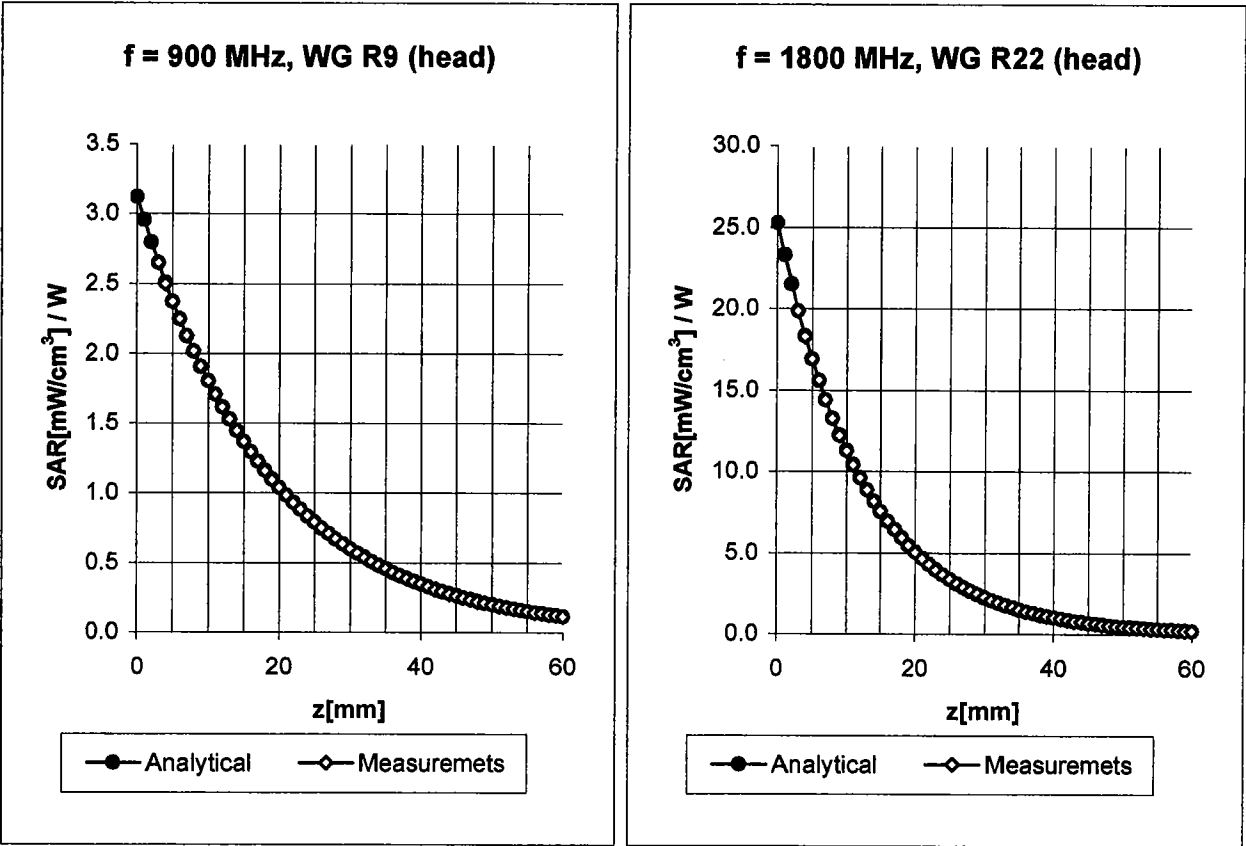
(TEM-Cell:ifi110, Waveguide R22)



Dynamic Range f(SAR_{brain})
(Waveguide R22)



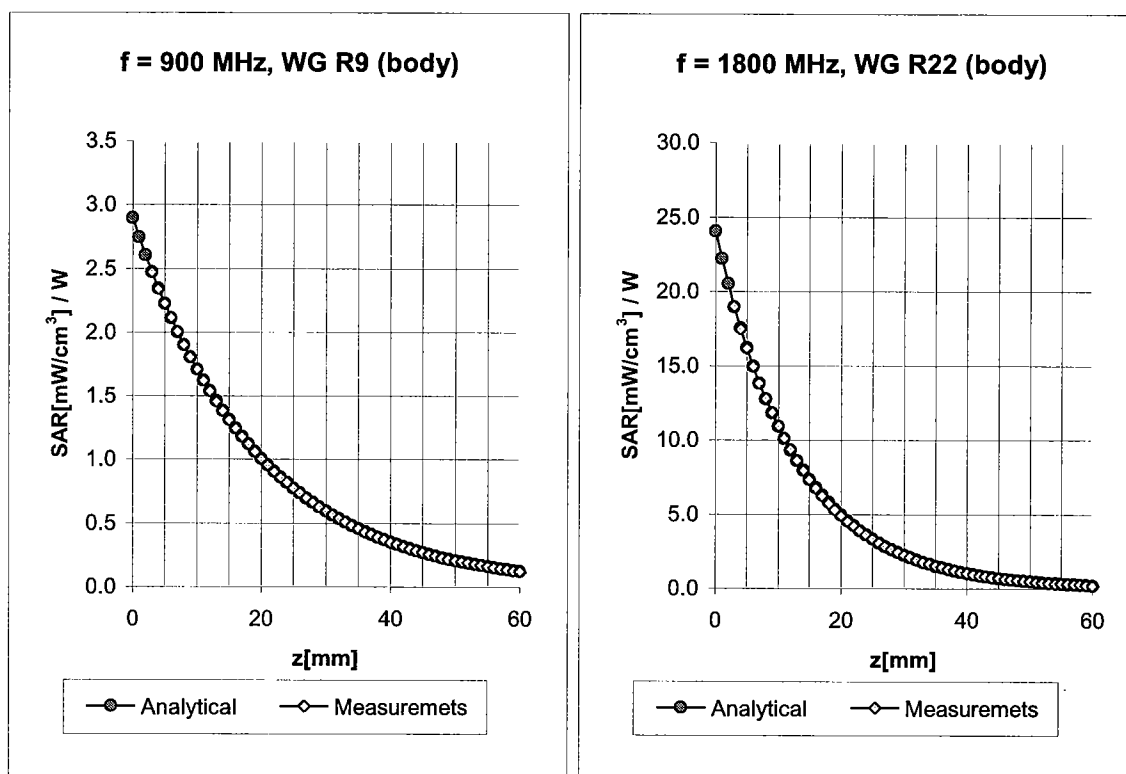
Conversion Factor Assessment



Head	900 MHz	$\epsilon_r = 41.5 \pm 5\%$	$\sigma = 0.97 \pm 5\% \text{ mho/m}$
Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X			
ConvF X	6.1 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.1 $\pm 9.5\%$ (k=2)	Alpha	0.32
ConvF Z	6.1 $\pm 9.5\%$ (k=2)	Depth	1.65

Head	1800 MHz	$\epsilon_r = 40.0 \pm 5\%$	$\sigma = 1.40 \pm 5\% \text{ mho/m}$
Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X			
ConvF X	5.0 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	5.0 $\pm 9.5\%$ (k=2)	Alpha	0.25
ConvF Z	5.0 $\pm 9.5\%$ (k=2)	Depth	2.30

Conversion Factor Assessment



Body **900 MHz** $\epsilon_r = 55.0 \pm 5\%$ $\sigma = 1.05 \pm 5\% \text{ mho/m}$

Valid for f=800-1000 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

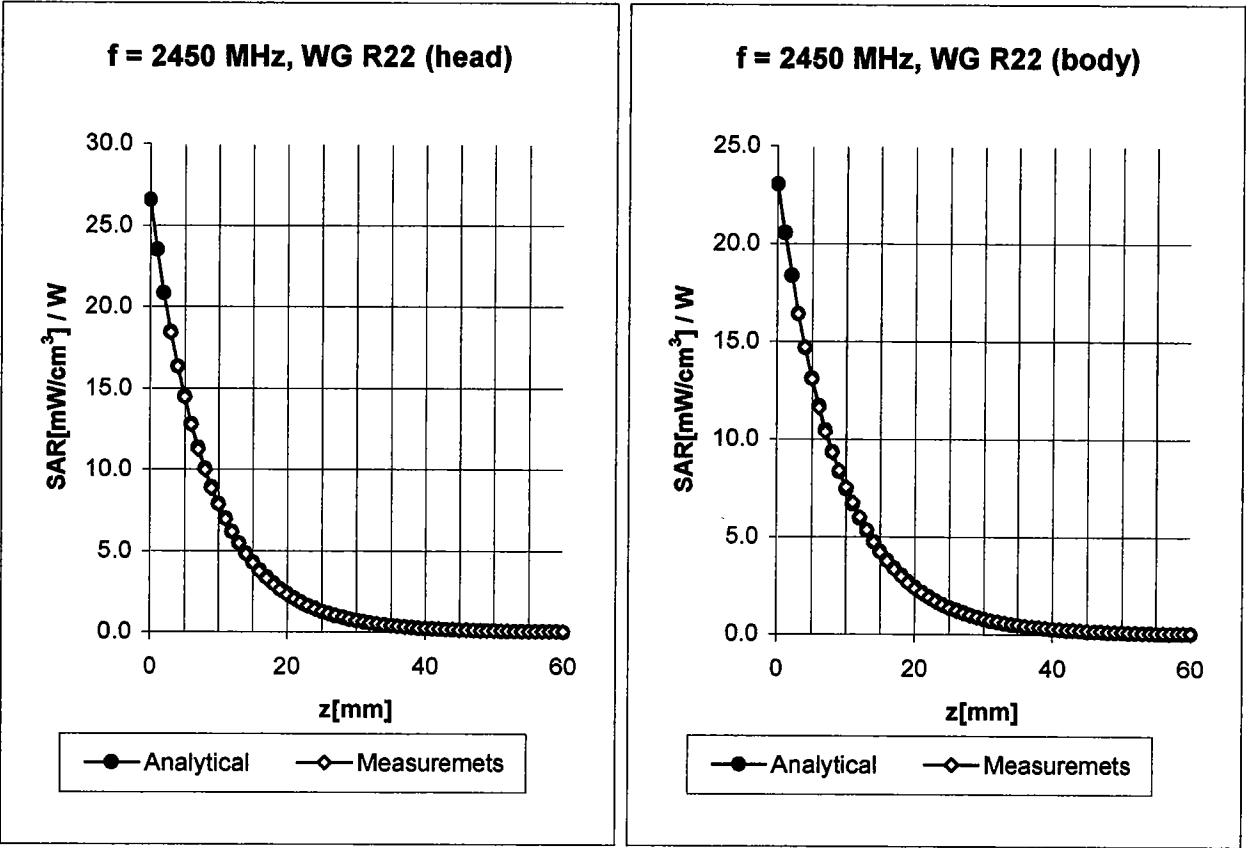
ConvF X	6.0 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.0 $\pm 9.5\%$ (k=2)	Alpha	0.38
ConvF Z	6.0 $\pm 9.5\%$ (k=2)	Depth	1.47

Body **1800 MHz** $\epsilon_r = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\% \text{ mho/m}$

Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.5 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	4.5 $\pm 9.5\%$ (k=2)	Alpha	0.22
ConvF Z	4.5 $\pm 9.5\%$ (k=2)	Depth	3.42

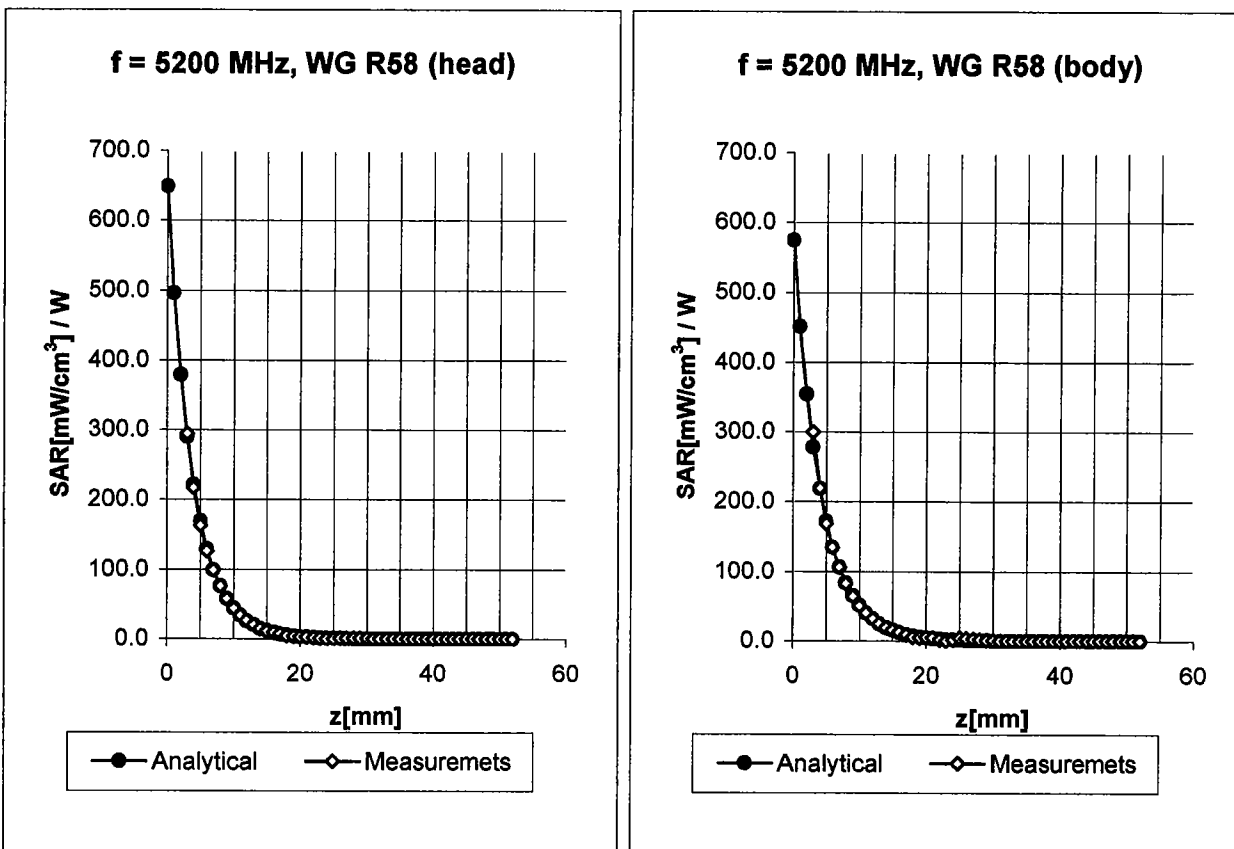
Conversion Factor Assessment



Head	2450 MHz	$\epsilon_r = 39.2 \pm 5\%$	$\sigma = 1.80 \pm 5\%$ mho/m
Valid for f=2400-2500 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X			
ConvF X	4.5 $\pm$ 9.5% (k=2)	Boundary effect:	
ConvF Y	4.5 $\pm$ 9.5% (k=2)	Alpha	0.42
ConvF Z	4.5 $\pm$ 9.5% (k=2)	Depth	1.56

Body	2450 MHz	$\epsilon_r = 52.7 \pm 5\%$	$\sigma = 1.95 \pm 5\%$ mho/m
Valid for f=2400-2500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C			
ConvF X	4.2 $\pm$ 9.5% (k=2)	Boundary effect:	
ConvF Y	4.2 $\pm$ 9.5% (k=2)	Alpha	0.42
ConvF Z	4.2 $\pm$ 9.5% (k=2)	Depth	1.65

Conversion Factor Assessment



Head **5200 MHz** $\epsilon_r = 36.0 \pm 5\%$ $\sigma = 4.66 \pm 5\% \text{ mho/m}$

Valid for f=4940-5460 MHz with Head Tissue Simulating Liquid according to OET65-SuppC

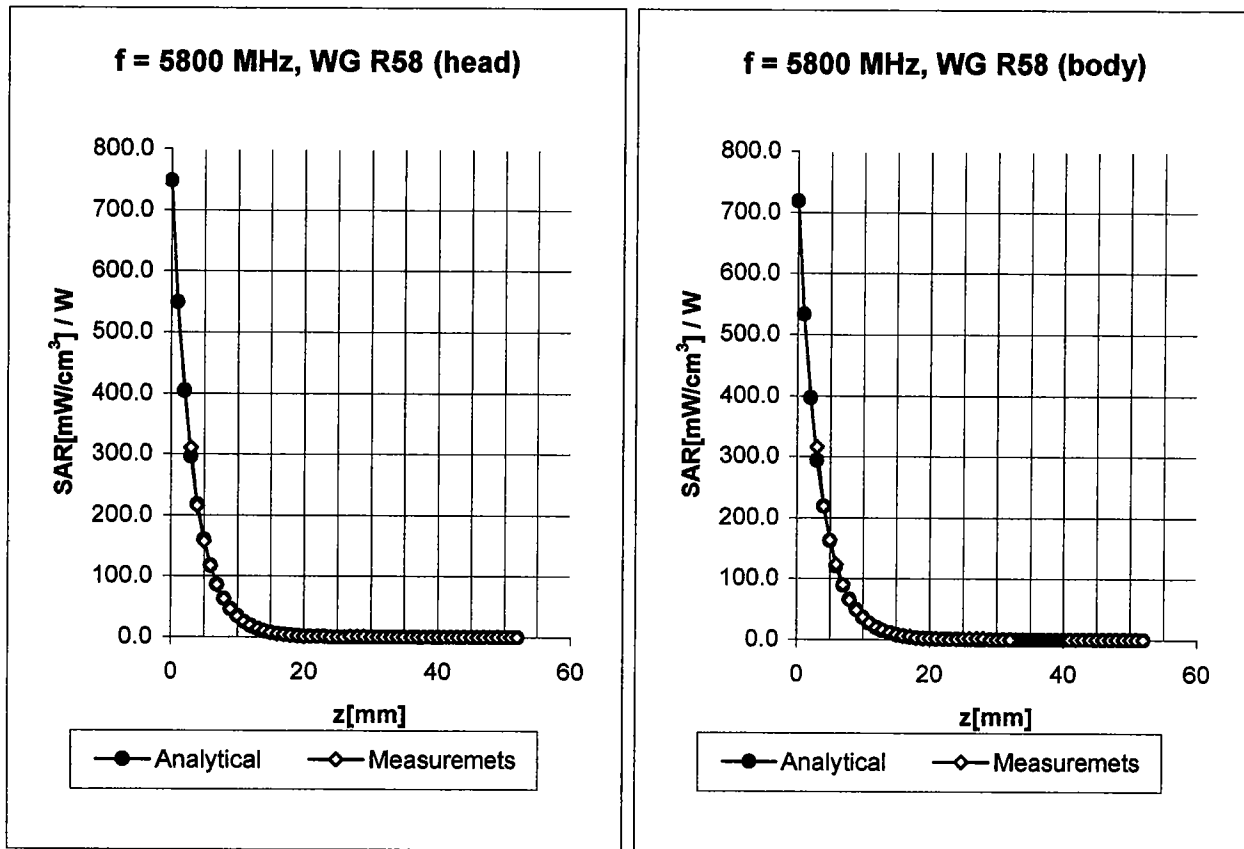
ConvF X	2.60 $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	2.60 $\pm 16.6\%$ (k=2)	Alpha	0.93
ConvF Z	2.60 $\pm 16.6\%$ (k=2)	Depth	1.50

Body **5200 MHz** $\epsilon_r = 49.0 \pm 5\%$ $\sigma = 5.30 \pm 5\% \text{ mho/m}$

Valid for f=4940-5460 MHz with Body Tissue Simulating Liquid according to OET65-SuppC

ConvF X	1.80 $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	1.80 $\pm 16.6\%$ (k=2)	Alpha	1.05
ConvF Z	1.80 $\pm 16.6\%$ (k=2)	Depth	1.60

Conversion Factor Assessment



Head 5800 MHz $\epsilon_r = 35.3 \pm 5\%$ $\sigma = 5.27 \pm 5\%$ mho/m

Valid for f=5510-6090 MHz with Head Tissue Simulating Liquid according to OET65-SuppC

ConvF X	2.15 $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	2.15 $\pm 16.6\%$ (k=2)	Alpha 1.04
ConvF Z	2.15 $\pm 16.6\%$ (k=2)	Depth 1.50

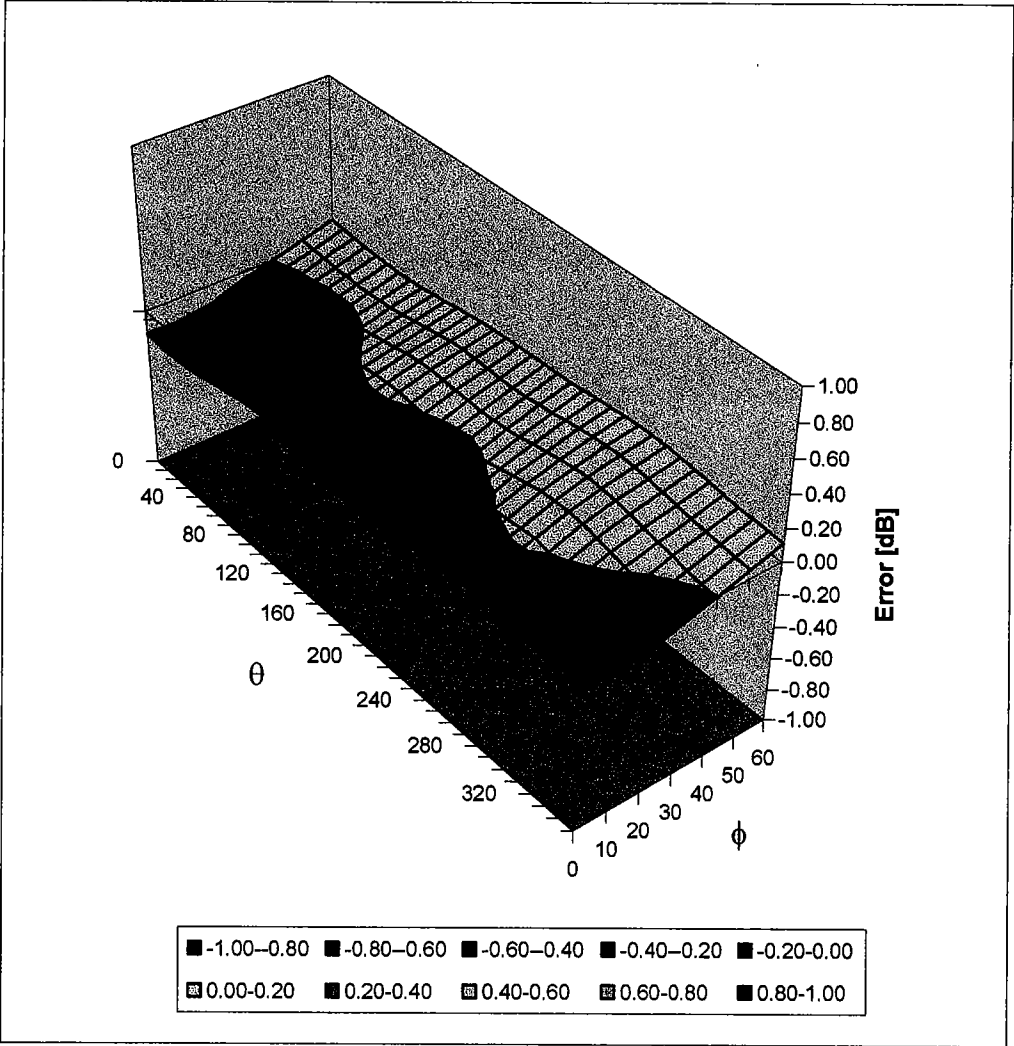
Body 5800 MHz $\epsilon_r = 48.2 \pm 5\%$ $\sigma = 6.0 \pm 5\%$ mho/m

Valid for f=5510-6090 MHz with Body Tissue Simulating Liquid according to OET65-SuppC

ConvF X	1.57 $\pm 16.6\%$ (k=2)	Boundary effect:
ConvF Y	1.57 $\pm 16.6\%$ (k=2)	Alpha 1.15
ConvF Z	1.57 $\pm 16.6\%$ (k=2)	Depth 1.70

Deviation from Isotropy in HSL

Error ($\theta\phi$), $f = 900\text{ MHz}$



Additional Conversion Factors

for Dosimetric E-Field Probe

Type:

ES3DV2

Serial Number:

3022

Place of Assessment:

Zurich

Date of Assessment:

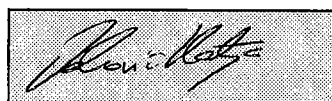
October 3, 2003

Probe Calibration Date:

September 23, 2003

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by:



Dosimetric E-Field Probe ES3DV2 SN:3022

Conversion factor ($\pm$ standard deviation)

150 MHz	ConvF	$8.5 \pm 8\%$	$\epsilon_r = 52.3 \pm 5\%$ $\sigma = 0.76 \pm 5\% \text{ mho/m}$ (head tissue)
150 MHz	ConvF	$8.0 \pm 8\%$	$\epsilon_r = 61.9 \pm 5\%$ $\sigma = 0.80 \pm 5\% \text{ mho/m}$ (body tissue)
450 MHz	ConvF	$7.1 \pm 8\%$	$\epsilon_r = 43.5 \pm 5\%$ $\sigma = 0.87 \pm 5\% \text{ mho/m}$ (head tissue)
450 MHz	ConvF	$7.2 \pm 8\%$	$\epsilon_r = 56.7 \pm 5\%$ $\sigma = 0.94 \pm 5\% \text{ mho/m}$ (body tissue)