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APPENDIX A: SAR DISTRIBUTION COMPARISON FOR THE ACCURACY VERIFICATION

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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.8 °C Liquid Temperature : 22.7 °C

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 MHz Head ($\sigma = 0.89 \text{ mho/m}$, $\epsilon_r = 40.67$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.6, 6.6, 6.6); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (81x151x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 113.8 V/m

Power Drift = -0.06 dB

Maximum value of SAR = 10.5 mW/g

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

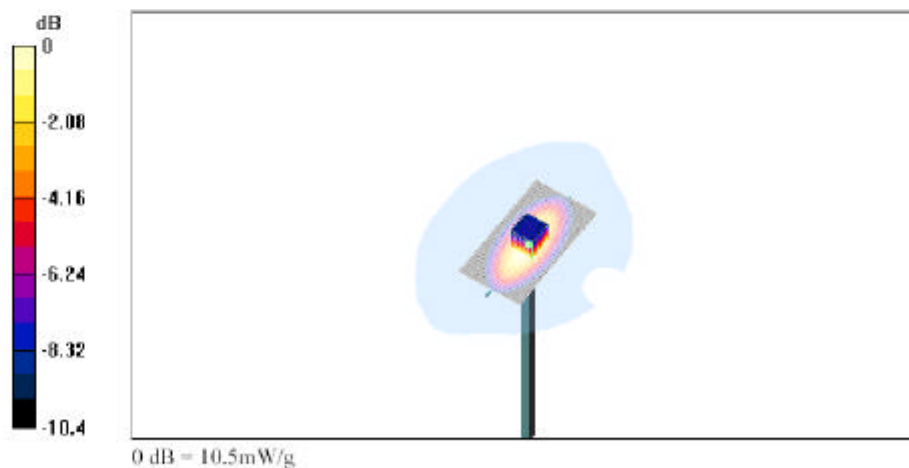
Peak SAR (extrapolated) = 14.1 W/kg

SAR(1 g) = 9.82 mW/g; SAR(10 g) = 6.4 mW/g

Reference Value = 113.8 V/m

Power Drift = -0.06 dB

Maximum value of SAR = 10.5 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.8 °C Liquid Temperature : 22.9 °C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

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

Medium: HSL1900 ($\sigma = 1.43$ mho/m, $\epsilon_r = 40.15$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.4, 5.4, 5.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 189.8 V/m

Power Drift = -0.004 dB

Maximum value of SAR = 47.1 mW/g

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

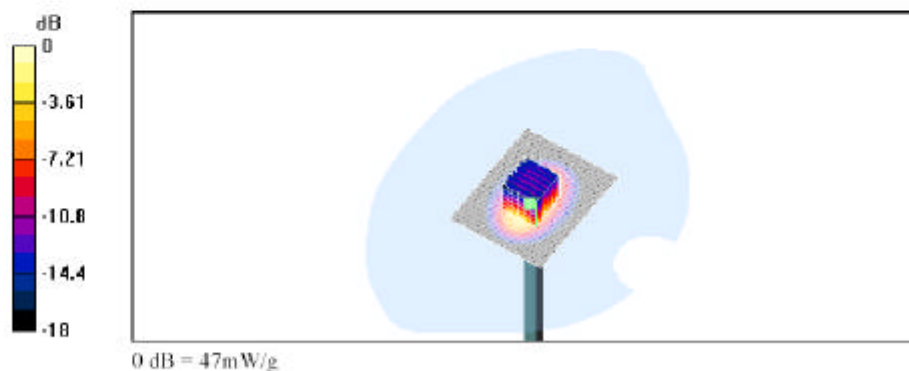
Peak SAR (extrapolated) = 75.5 W/kg

SAR(1 g) = 42 mW/g; SAR(10 g) = 21.5 mW/g

Reference Value = 189.8 V/m

Power Drift = -0.004 dB

Maximum value of SAR = 47 mW/g



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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.5 °C Liquid Temperature : 22.4 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Touch left side; High Chan; Cellular Band

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

Medium: 835 MHz Head ($\sigma = 0.89$ mho/m, $\epsilon_r = 40.67$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.6, 6.6, 6.6); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 11.3 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 1.4 mW/g

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

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.749 mW/g

Reference Value = 11.3 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 1.4 mW/g



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Date/Time: 11/07/03 12:16:47

Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.5 °C Liquid Temperature : 22.7 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Tilted left side; Mid. Chan; Cellular Band

Communication System: Cellular CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1
Medium: 835 MHz Head ($\sigma = 0.89$ mho/m, $\epsilon_r = 40.67$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.6, 6.6, 6.6); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 12 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.498 mW/g

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

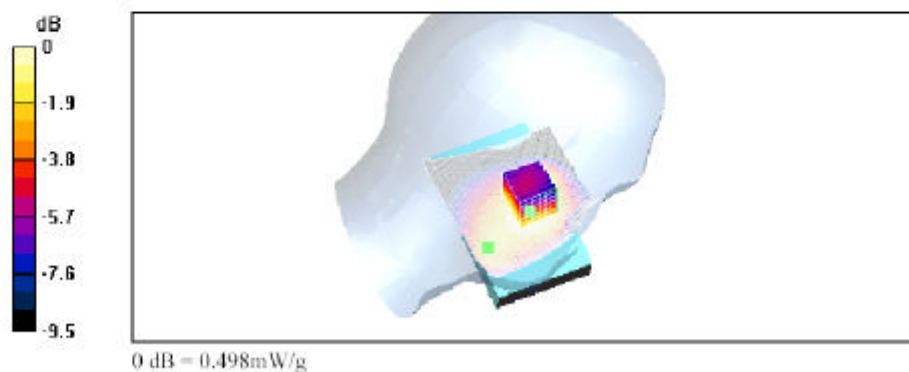
Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.48 mW/g; SAR(10 g) = 0.356 mW/g

Reference Value = 12 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.498 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.5 °C Liquid Temperature : 22.4 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Touch right; Mid. Chan; Cellular Band

Communication System: Cellular CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium: 835 MHz Head ($\sigma = 0.89$ mho/m, $\epsilon_r = 40.67$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.6, 6.6, 6.6); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (91x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 11.9 V/m

Power Drift = -0.5 dB

Maximum value of SAR = 0.703 mW/g

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

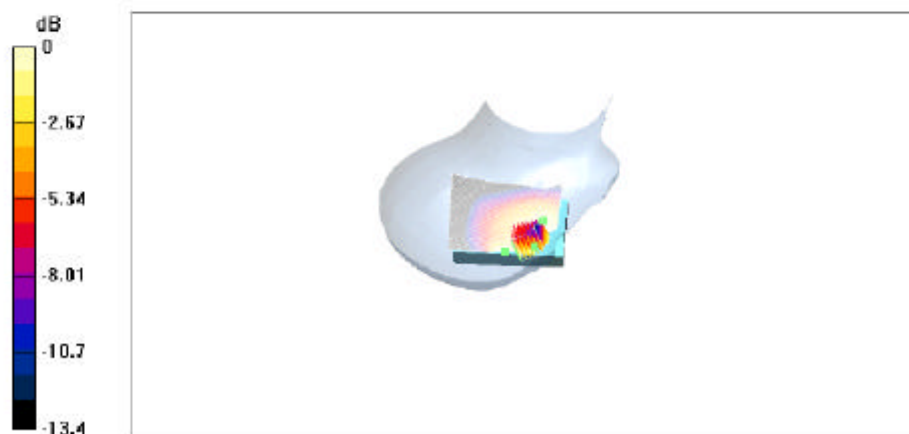
Peak SAR (extrapolated) = 0.894 W/kg

SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.432 mW/g

Reference Value = 11.9 V/m

Power Drift = -0.5 dB

Maximum value of SAR = 0.675 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.5 °C Liquid Temperature : 22.4 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Tilted right side; Mid. Chan; Cellular Band

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

Medium: 835 MHz Head ($\sigma = 0.89$ mho/m, $\epsilon_r = 40.67$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.6, 6.6, 6.6); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 14.6 V/m

Power Drift = 0.08 dB

Maximum value of SAR = 0.386 mW/g

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

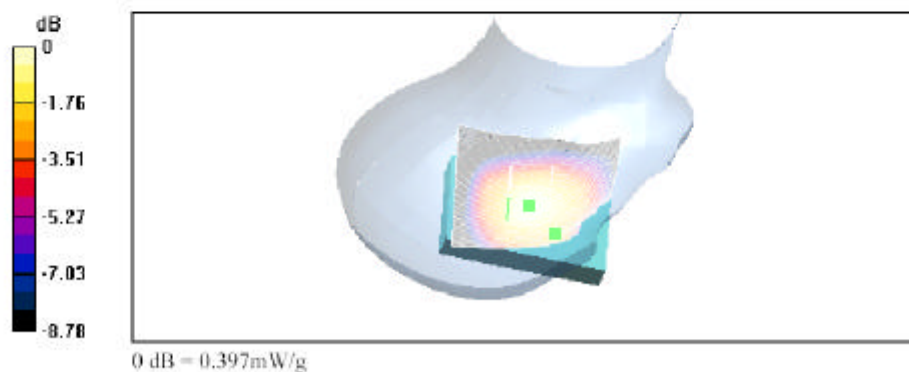
Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.287 mW/g

Reference Value = 14.6 V/m

Power Drift = 0.08 dB

Maximum value of SAR = 0.397 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.7 °C Liquid Temperature : 22.6 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Touch left side; High Chan; PCS Band

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

Medium: HSL1900 ($\sigma = 1.43$ mho/m, $\epsilon_r = 40.15$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.4, 5.4, 5.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 16.1 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.44 mW/g

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

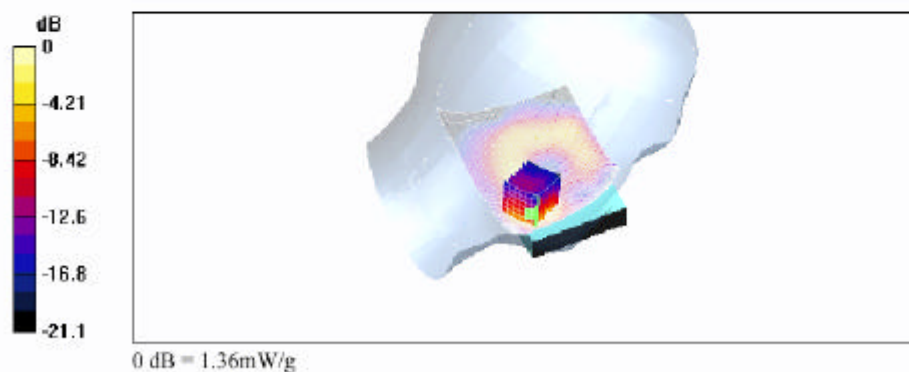
Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.589 mW/g

Reference Value = 16.1 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.36 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.7 °C Liquid Temperature : 22.8 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Tilted left side; Mid. Chan; PCS Band

Communication System: PCS CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 ($\sigma = 1.43$ mho/m, $\epsilon_r = 40.15$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.4, 5.4, 5.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 15.6 V/m

Power Drift = -0.4 dB

Maximum value of SAR = 0.419 mW/g

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

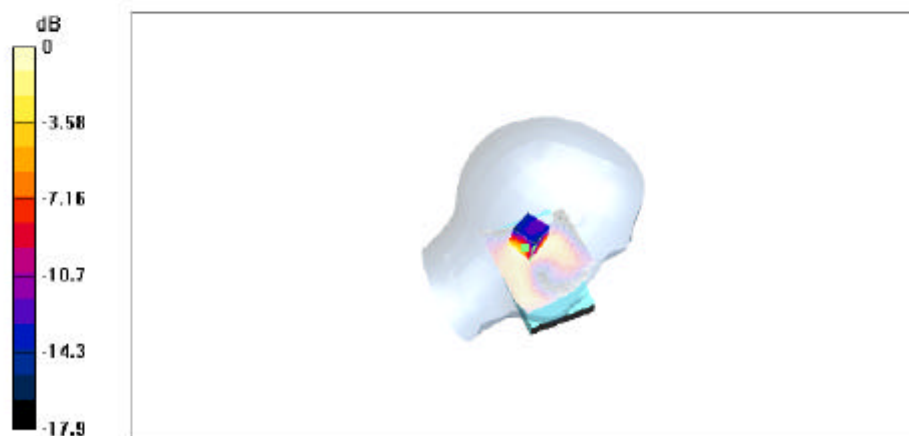
Peak SAR (extrapolated) = 0.729 W/kg

SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.197 mW/g

Reference Value = 15.6 V/m

Power Drift = -0.4 dB

Maximum value of SAR = 0.404 mW/g



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Ambient Temperature : 24.4 °C Liquid Temperature : 22.5 °C

**DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Touch right side; Mid.
Chan; PCS Band**

Communication System: PCS CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 ($\sigma = 1.43$ mho/m, $\epsilon_r = 40.15$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.4, 5.4, 5.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 11.5 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1 mW/g

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

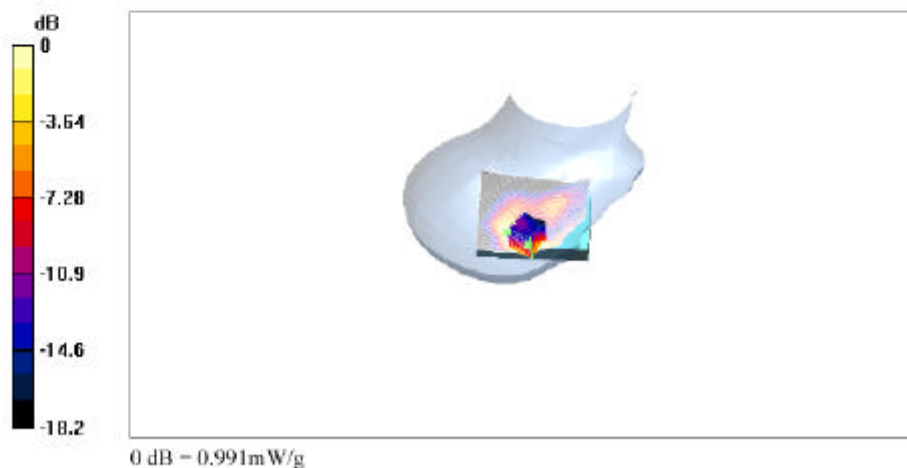
Peak SAR (extrapolated) = 1.8 W/kg

SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.428 mW/g

Reference Value = 11.5 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.991 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.4 °C Liquid Temperature : 22.5 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Tilted right side; Mid. Chan; PCS Band

Communication System: PCS CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 ($\sigma = 1.43$ mho/m, $\epsilon_r = 40.15$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.4, 5.4, 5.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 13.6 V/m

Power Drift = 0.009 dB

Maximum value of SAR = 0.632 mW/g

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

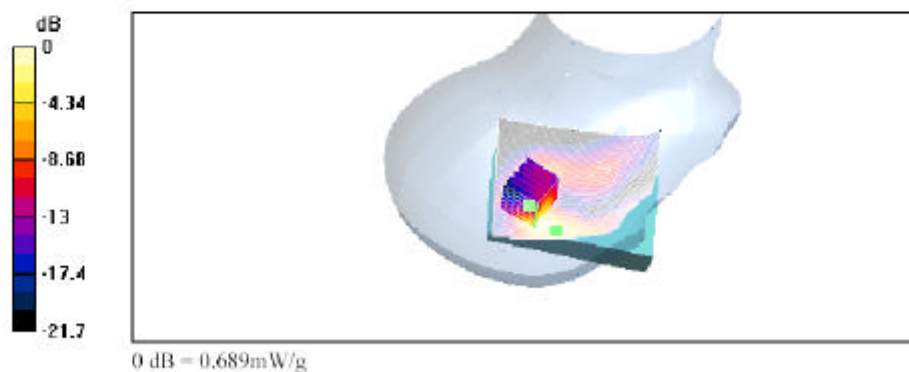
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.276 mW/g

Reference Value = 13.6 V/m

Power Drift = 0.009 dB

Maximum value of SAR = 0.689 mW/g



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APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.3 °C Liquid Temperature : 23.0 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Body-worn with holster; Mid. Chan; Cellular Band

Cycle: 1:1

Medium: M 835 ($\sigma = 0.96$ mho/m, $\epsilon_r = 53.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.4, 6.4, 6.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 23.5 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.601 mW/g

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

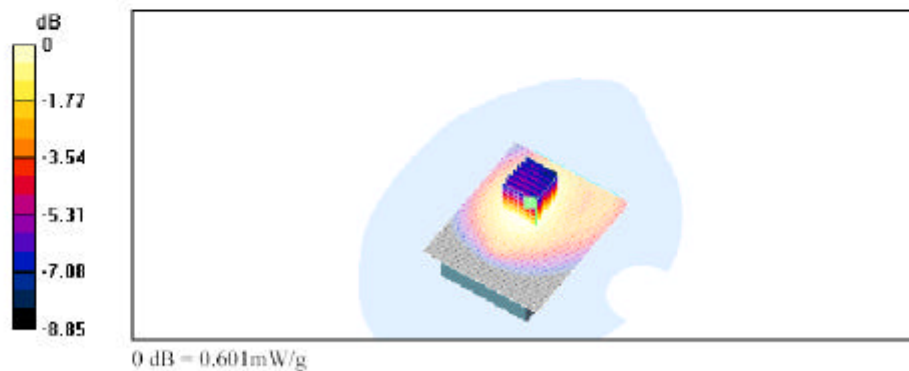
Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.572 mW/g; SAR(10 g) = 0.428 mW/g

Reference Value = 23.5 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.601 mW/g



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Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.4 °C Liquid Temperature : 23.0 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Body-worn with leather holster; Mid. Chan; Cellular Band

Communication System: Cellular CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium: M 835 ($\sigma = 0.96$ mho/m, $\epsilon_r = 53.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.4, 6.4, 6.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1); Measurement grid: dx=10mm, dy=10mm

Reference Value = 24.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.559 mW/g

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

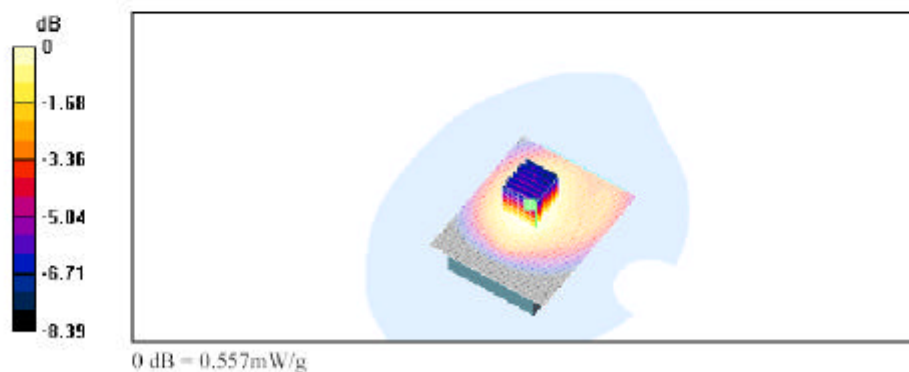
Peak SAR (extrapolated) = 0.656 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.396 mW/g

Reference Value = 24.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.557 mW/g



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Date/Time: 11/10/03 16:03:39

Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.3 °C Liquid Temperature : 23.0 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Body-worn with holster and headset; Mid. Chan; Cellular Band

Communication System: Cellular CDMA ; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium: M 835 ($\sigma = 0.96$ mho/m, $\epsilon_r = 53.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.4, 6.4, 6.4); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1); Measurement grid: dx=10mm, dy=10mm

Reference Value = 20.6 V/m

Power Drift = 0.05 dB

Maximum value of SAR = 0.43 mW/g

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

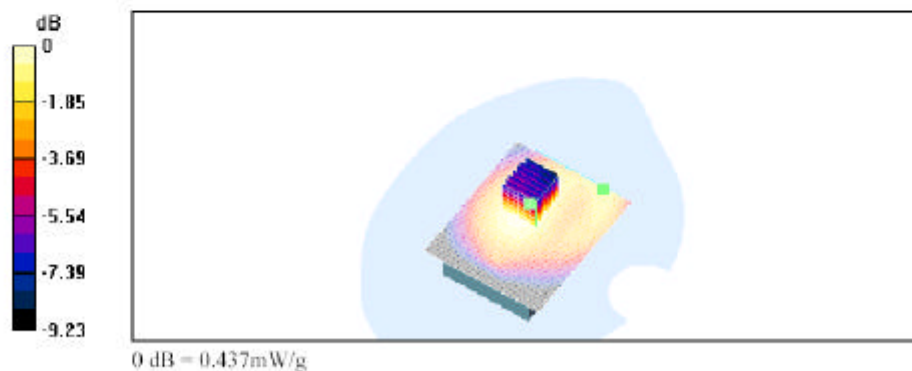
Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.307 mW/g

Reference Value = 20.6 V/m

Power Drift = 0.05 dB

Maximum value of SAR = 0.437 mW/g



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Date/Time: 11/12/03 14:34:40

Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.7 °C Liquid Temperature : 22.8 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Body-worn with holster; Mid. Chan; PCS Band

Communication System: PCS CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900 ($\sigma = 1.55$ mho/m, $\epsilon_r = 51.01$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.9, 4.9, 4.9); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 3.87 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.209 mW/g

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

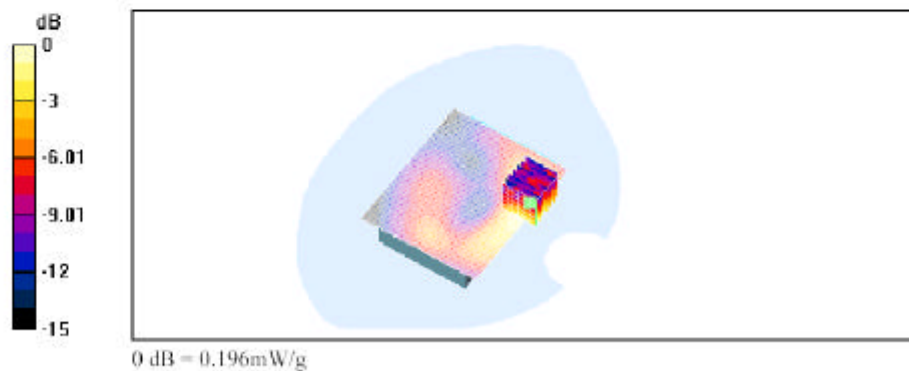
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.112 mW/g

Reference Value = 3.87 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.196 mW/g



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Date/Time: 11/12/03 15:41:25

Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.6 °C Liquid Temperature : 22.7 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Body-worn with leather holster; Mid. Chan; PCS Band

Medium: M1900 ($\sigma = 1.55 \text{ mho/m}$, $\epsilon_r = 51.01$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.9, 4.9, 4.9); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 3.6 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.21 mW/g

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

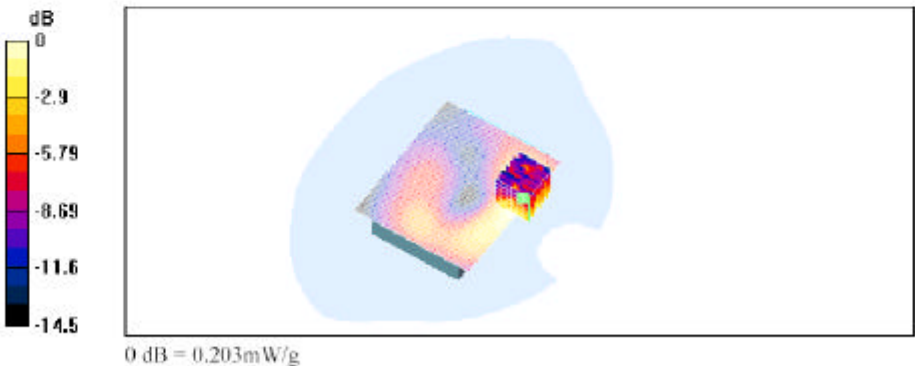
Peak SAR (extrapolated) = 0.32 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.12 mW/g

Reference Value = 3.6 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.203 mW/g



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Date/Time: 11/12/03 17:06:28

Test Laboratory: Research In Motion Limited

Ambient Temperature : 24.6 °C Liquid Temperature : 22.7 °C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: E2PRF08; Body-worn with leather holster and headset; Mid. Chan; PCS Band

Communication System: PCS CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1900 ($\sigma = 1.55$ mho/m, $\epsilon_r = 51.01$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.9, 4.9, 4.9); Calibrated: 28/08/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 19/08/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Unnamed procedure/Area Scan (101x121x1); Measurement grid: dx=10mm, dy=10mm

Reference Value = 3.25 V/m

Power Drift = -0.09 dB

Maximum value of SAR = 0.217 mW/g

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

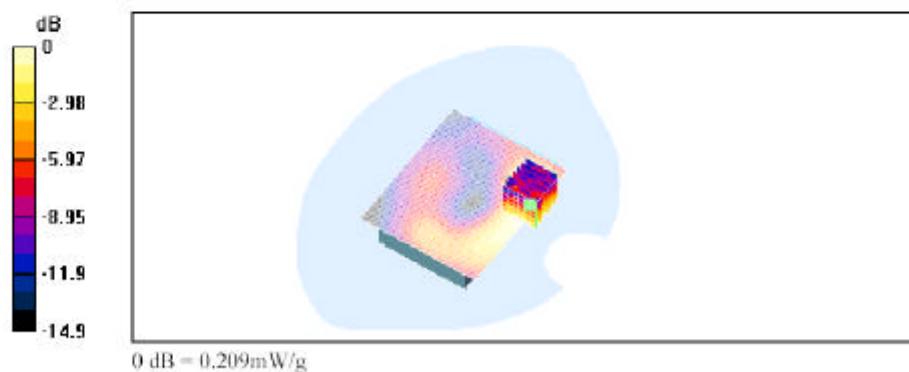
Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.12 mW/g

Reference Value = 3.25 V/m

Power Drift = -0.09 dB

Maximum value of SAR = 0.209 mW/g



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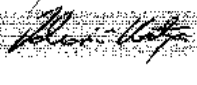
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APPENDIX D: PROBE & DIPOLE CALIBRATION DATA

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Calibration Laboratory of
Schmid & Partner
Engineering AG
 Zeughausstrasse 43, 8004 Zurich, Switzerland

Client **RIM**

CALIBRATION CERTIFICATE																															
Object(s)	ET3DV6 - SN:1642																														
Calibration procedure(s)	QA-CAL-01.v2 Calibration procedure for dosimetric E-field probes																														
Calibration date:	August 28, 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) <table border="1"> <thead> <tr> <th>Model Type</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>RF generator HP 8684C</td> <td>US3642U01700</td> <td>4-Aug-99 (SPEAG, in house check Aug-02)</td> <td>In house check: Aug-05</td> </tr> <tr> <td>Power sensor E4412A</td> <td>MY41495277</td> <td>2-Apr-03 (METAS, No 252-0250)</td> <td>Apr-04</td> </tr> <tr> <td>Power sensor HP 8481A</td> <td>MY41092180</td> <td>18-Sep-02 (Agilent, No. 20020918)</td> <td>Sep-03</td> </tr> <tr> <td>Power meter EPM E4419B</td> <td>GB41293874</td> <td>2-Apr-03 (METAS, No 252-0250)</td> <td>Apr-04</td> </tr> <tr> <td>Network Analyzer HP 8753E</td> <td>US37390585</td> <td>18-Oct-01 (Agilent, No. 248R1033101)</td> <td>In house check: Oct 03</td> </tr> <tr> <td>Fuke Process Calibrator Type 702</td> <td>SN: 6295803</td> <td>3-Sep-01 (ELCAL, No.2360)</td> <td>Sep-03</td> </tr> </tbody> </table>				Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	RF generator HP 8684C	US3642U01700	4-Aug-99 (SPEAG, in house check Aug-02)	In house check: Aug-05	Power sensor E4412A	MY41495277	2-Apr-03 (METAS, No 252-0250)	Apr-04	Power sensor HP 8481A	MY41092180	18-Sep-02 (Agilent, No. 20020918)	Sep-03	Power meter EPM E4419B	GB41293874	2-Apr-03 (METAS, No 252-0250)	Apr-04	Network Analyzer HP 8753E	US37390585	18-Oct-01 (Agilent, No. 248R1033101)	In house check: Oct 03	Fuke Process Calibrator Type 702	SN: 6295803	3-Sep-01 (ELCAL, No.2360)	Sep-03
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Fuke Process Calibrator Type 702	SN: 6295803	3-Sep-01 (ELCAL, No.2360)	Sep-03																												
Calibrated by:	Name Nico Vetter	Function Technician	Signature 																												
Approved by:	Name Katja Pokovic	Function Laboratory Director	Signature 																												
Date issued: August 28, 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.																															

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Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 8778
info@speag.com, <http://www.speag.com>

Probe ET3DV6

SN:1642

Manufactured: November 7, 2001
 Last calibration: July 26, 2002
 Recalibrated: August 28, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ET3DV6 SN:1642

August 28, 2003

DASY - Parameters of Probe: ET3DV6 SN:1642

Sensitivity in Free Space

Diode Compression

NormX	1.84 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	96	mV
NormY	1.86 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	96	mV
NormZ	1.61 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	96	mV

Sensitivity in Tissue Simulating Liquid

Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	6.6 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.6 $\pm 9.5\%$ (k=2)	Alpha	0.27
ConvF Z	6.6 $\pm 9.5\%$ (k=2)	Depth	3.41

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	5.4 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	5.4 $\pm 9.5\%$ (k=2)	Alpha	0.48
ConvF Z	5.4 $\pm 9.5\%$ (k=2)	Depth	2.57

Boundary Effect

Head 900 MHz Typical SAR gradient: 5 % per mm

Probe Tip to Boundary		1 mm	2 mm
SAR _{iso} [%]	Without Correction Algorithm	10.8	6.6
SAR _{iso} [%]	With Correction Algorithm	0.6	0.6

Head 1800 MHz Typical SAR gradient: 10 % per mm

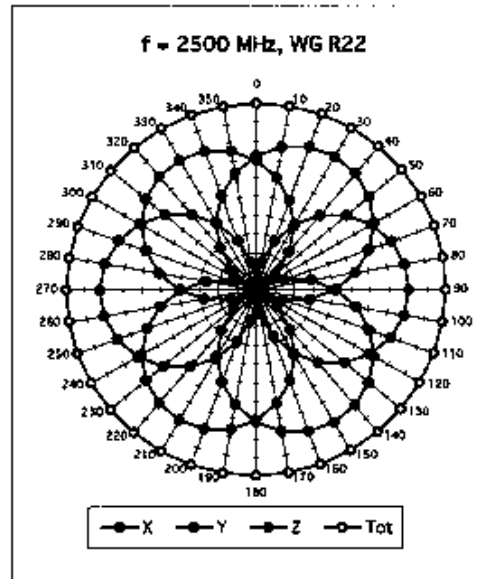
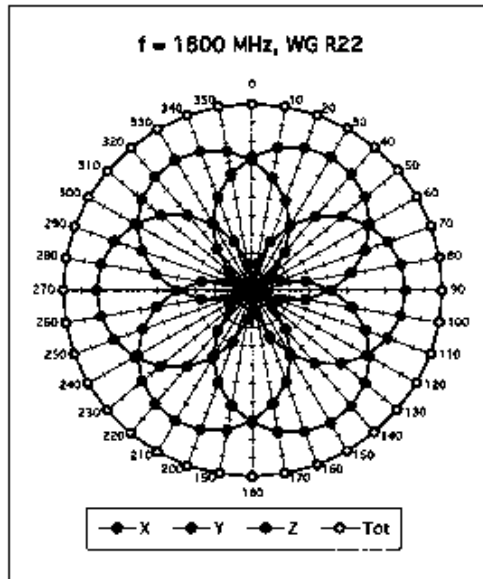
Probe Tip to Boundary		1 mm	2 mm
SAR _{iso} [%]	Without Correction Algorithm	12.7	8.5
SAR _{iso} [%]	With Correction Algorithm	0.2	0.1

Sensor Offset

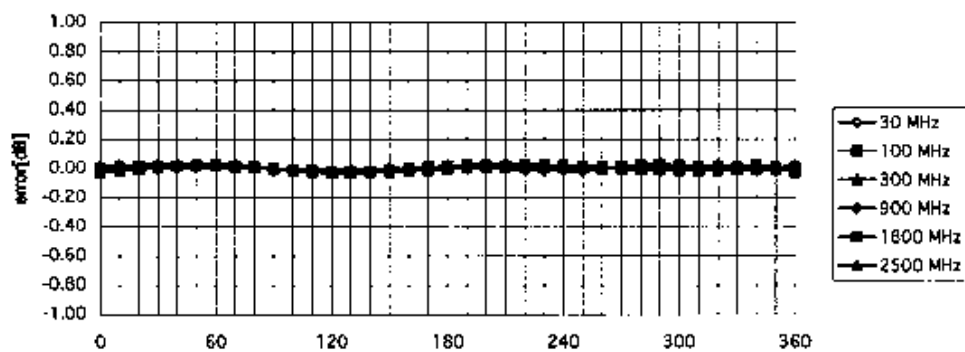
Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.0 ± 0.2	mm

ET3DV6 SN:1642

August 28, 2003



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

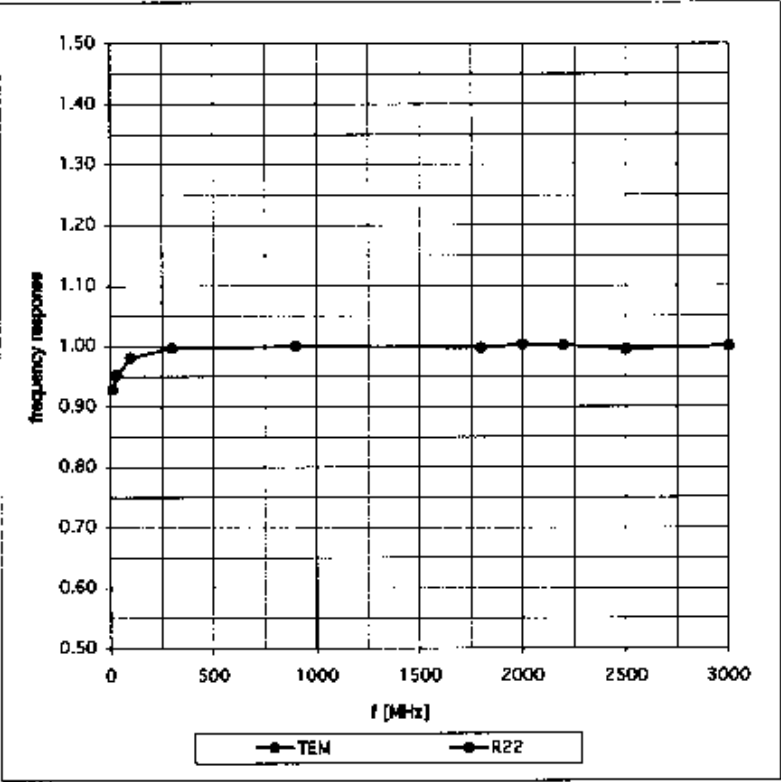


ET3DV6 9N:1642

August 28, 2003

Frequency Response of E-Field

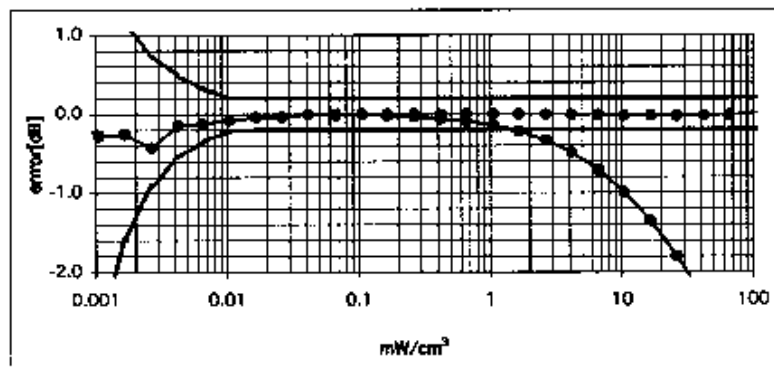
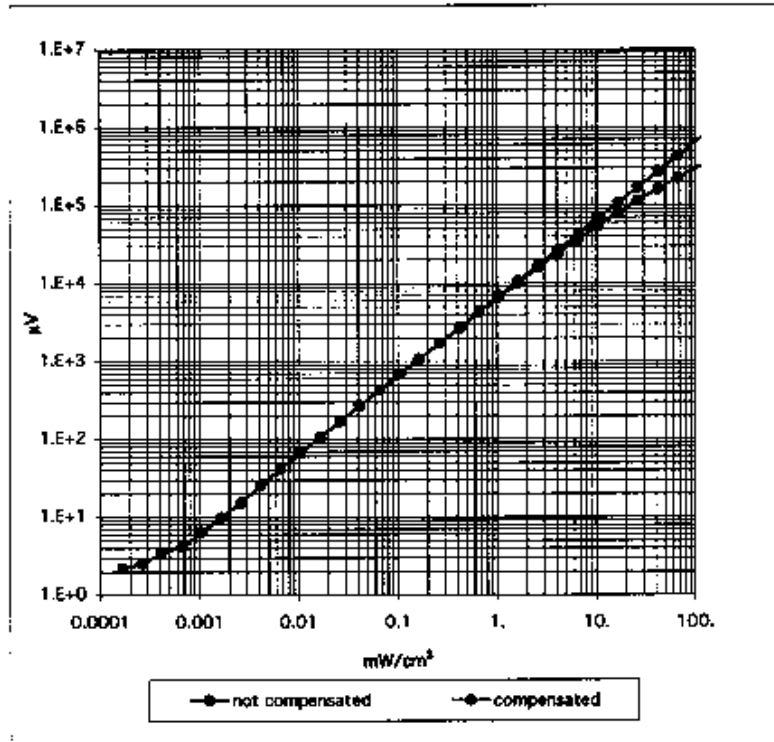
(TEM-Cell:if1110, Waveguide R22)



ET3DV8 SN:1642

August 28, 2003

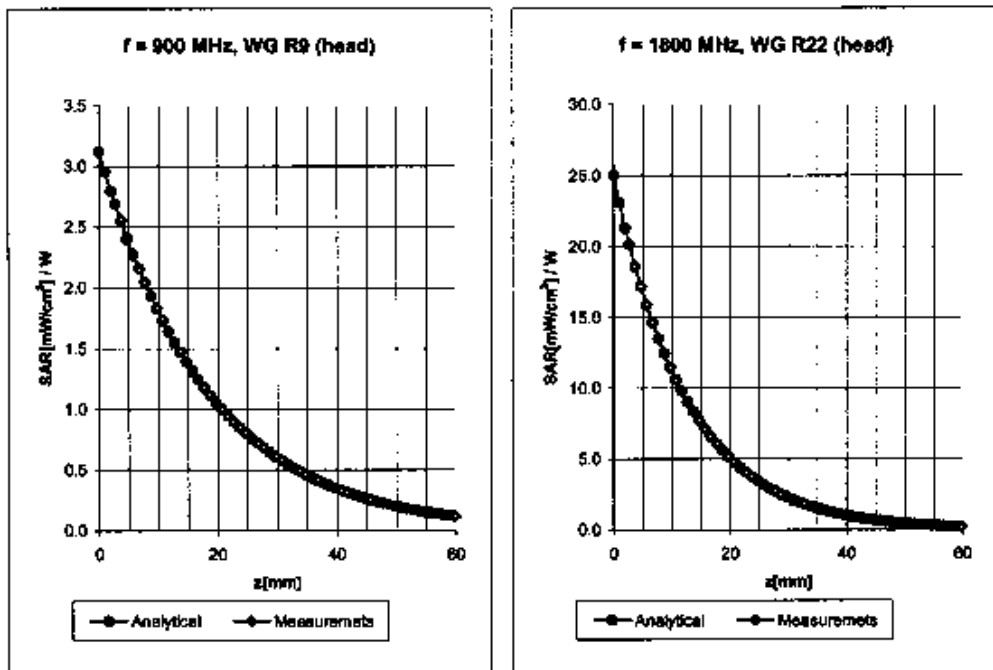
Dynamic Range f(SARhead) (Waveguide R22)



ET3DV6 SN:1642

August 28, 2003

Conversion Factor Assessment



Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1526-200X

ConvF X	6.6 $\pm$ 9.5% (k=2)	Boundary effect:	
ConvF Y	6.6 $\pm$ 9.5% (k=2)	Alpha	0.27
ConvF Z	6.6 $\pm$ 9.5% (k=2)	Depth	3.41

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

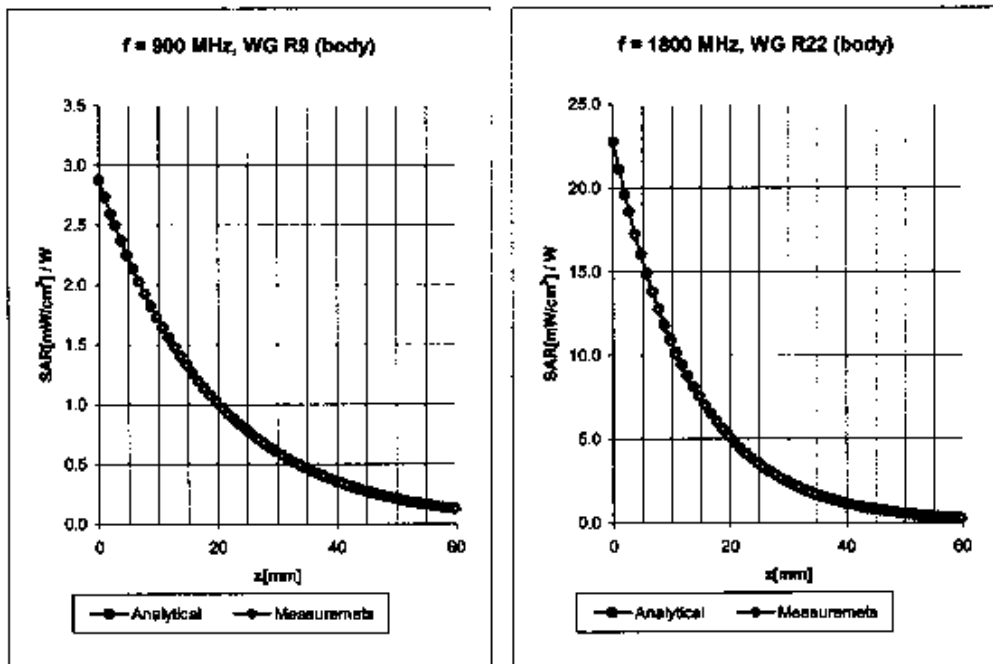
Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1526-200X

ConvF X	5.4 $\pm$ 9.5% (k=2)	Boundary effect:	
ConvF Y	5.4 $\pm$ 9.5% (k=2)	Alpha	0.48
ConvF Z	5.4 $\pm$ 9.5% (k=2)	Depth	2.57

ET3DV6 SN:1642

August 28, 2003

Conversion Factor Assessment



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

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

ConvF X	6.4 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.4 $\pm 9.5\%$ (k=2)	Alpha	0.38
ConvF Z	6.4 $\pm 9.5\%$ (k=2)	Depth	2.58

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

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

ConvF X	4.9 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	4.9 $\pm 9.5\%$ (k=2)	Alpha	0.58
ConvF Z	4.9 $\pm 9.5\%$ (k=2)	Depth	2.60

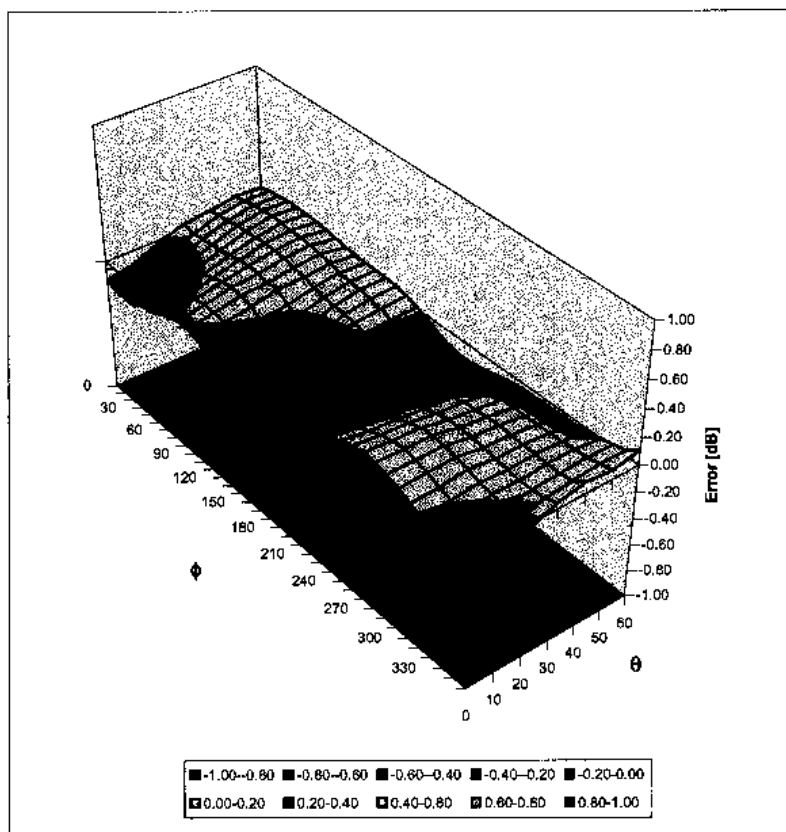
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ET3DV6 SN:1642

August 28, 2003

Deviation from Isotropy in HSL

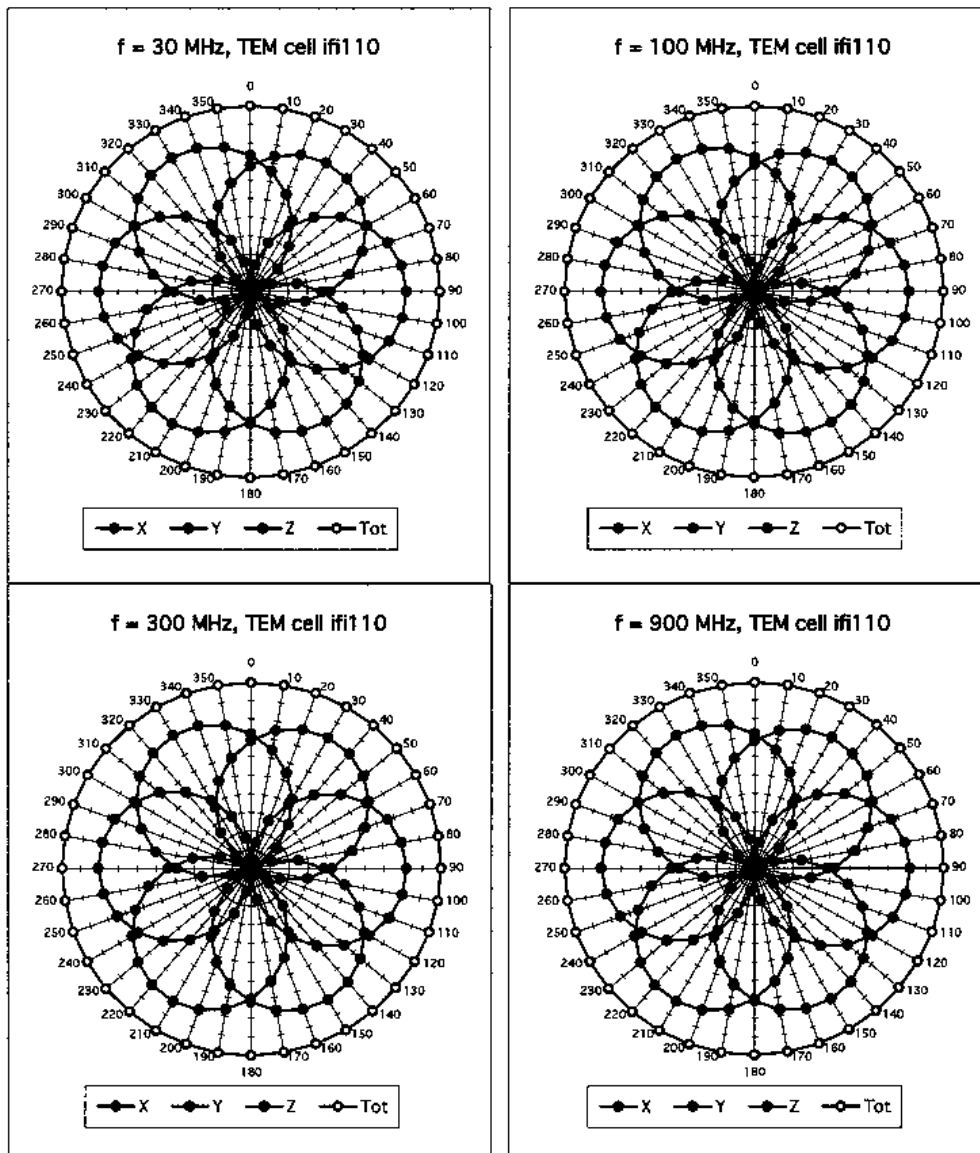
Error (θ, ϕ), $f = 900$ MHz



ET3DV6 SN:1642

August 28, 2003

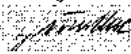
Receiving Pattern (ϕ), $\theta = 0^\circ$



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Calibration Laboratory of
Schmid & Partner
Engineering AG
 Zeughausstrasse 43, 8004 Zurich, Switzerland

Client **RIM**

CALIBRATION CERTIFICATE																											
Object(s)	D835V2 - SN.446																										
Calibration procedure(s)	QA CAL-05.v2 Calibration procedure for dipole validation kits																										
Calibration date:	August 21, 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) <table border="1"> <thead> <tr> <th>Model Type</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>RF generator R&S SML-93</td> <td>100698</td> <td>27-Mar-2002 (R&S, No. 20-92389)</td> <td>In house check: Mar-05</td> </tr> <tr> <td>Power sensor HP 8481A</td> <td>MY41092317</td> <td>18-Oct-02 (Agilent, No. 20021018)</td> <td>Oct-04</td> </tr> <tr> <td>Power sensor HP 8481A</td> <td>US37292783</td> <td>30-Oct-02 (METAS, No. 252-0236)</td> <td>Oct-03</td> </tr> <tr> <td>Power meter EPM E442</td> <td>GB37480704</td> <td>30-Oct-02 (METAS, No. 252-0236)</td> <td>Oct-03</td> </tr> <tr> <td>Network Analyzer HP 8753E</td> <td>US37390585</td> <td>18-Oct-01 (Agilent, No. 24BR1033101)</td> <td>In house check: Oct 03</td> </tr> </tbody> </table>				Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	RF generator R&S SML-93	100698	27-Mar-2002 (R&S, No. 20-92389)	In house check: Mar-05	Power sensor HP 8481A	MY41092317	18-Oct-02 (Agilent, No. 20021018)	Oct-04	Power sensor HP 8481A	US37292783	30-Oct-02 (METAS, No. 252-0236)	Oct-03	Power meter EPM E442	GB37480704	30-Oct-02 (METAS, No. 252-0236)	Oct-03	Network Analyzer HP 8753E	US37390585	18-Oct-01 (Agilent, No. 24BR1033101)	In house check: Oct 03
Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration																								
RF generator R&S SML-93	100698	27-Mar-2002 (R&S, No. 20-92389)	In house check: Mar-05																								
Power sensor HP 8481A	MY41092317	18-Oct-02 (Agilent, No. 20021018)	Oct-04																								
Power sensor HP 8481A	US37292783	30-Oct-02 (METAS, No. 252-0236)	Oct-03																								
Power meter EPM E442	GB37480704	30-Oct-02 (METAS, No. 252-0236)	Oct-03																								
Network Analyzer HP 8753E	US37390585	18-Oct-01 (Agilent, No. 24BR1033101)	In house check: Oct 03																								
Calibrated by:	Name Judith Mueller	Function Technician	Signature 																								
Approved by:	Name Katja Pokovic	Function Laboratory Director	Signature 																								
Date issued: August 22, 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																											

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Schmid & Partner Engineering AG

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Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 9779
info@speag.com, <http://www.speag.com>

DASY

Dipole Validation Kit

Type: D835V2

Serial: 446

Manufactured: October 24, 2001
Calibrated: August 21, 2003

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1. Measurement Conditions

The measurements were performed in the flat section of the SAM twin phantom filled with **head simulating solution** of the following electrical parameters at 835 MHz:

Relative Dielectricity	43.3	$\pm 5\%$
Conductivity	0.91 mho/m	$\pm 5\%$

The DASY4 System with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 6.7 at 835 MHz) was used for the measurements.

The dipole was mounted on the small tripod so that the dipole feedpoint was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 15mm from dipole center to the solution surface. The included distance spacer was used during measurements for accurate distance positioning.

The coarse grid with a grid spacing of 15mm was aligned with the dipole. The 7x7x7 fine cube was chosen for cube integration.

The dipole input power (forward power) was 250 mW $\pm 3\%$. The results are normalized to 1W input power.

2. SAR Measurement with DASY4 System

Standard SAR-measurements were performed according to the measurement conditions described in section 1. The results (see figure supplied) have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ET3DV6 SN:1507 and applying the advanced extrapolation are:

averaged over 1 cm ³ (1 g) of tissue:	9.60 mW/g $\pm 16.8\%$ (k=2)¹
averaged over 10 cm ³ (10 g) of tissue:	6.24 mW/g $\pm 16.2\%$ (k=2)¹

¹ validation uncertainty

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Test Laboratory: SPEAG, Zurich, Switzerland
File Name: SN446_SN1507_HSL835_210803.da4

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN446
Program: Dipole Calibration

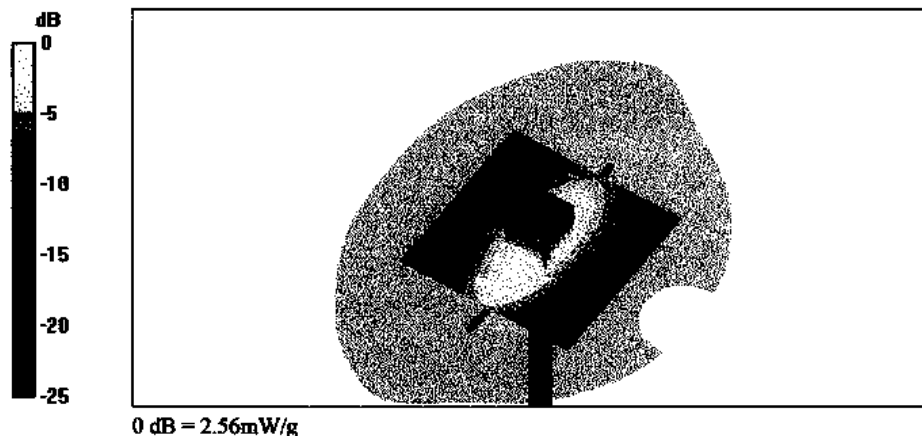
Communication System: CW-835; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL 835 MHz ($\sigma = 0.91 \text{ mho/m}$, $\epsilon_r = 43.28$, $\rho = 1000 \text{ kg/m}^3$)
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

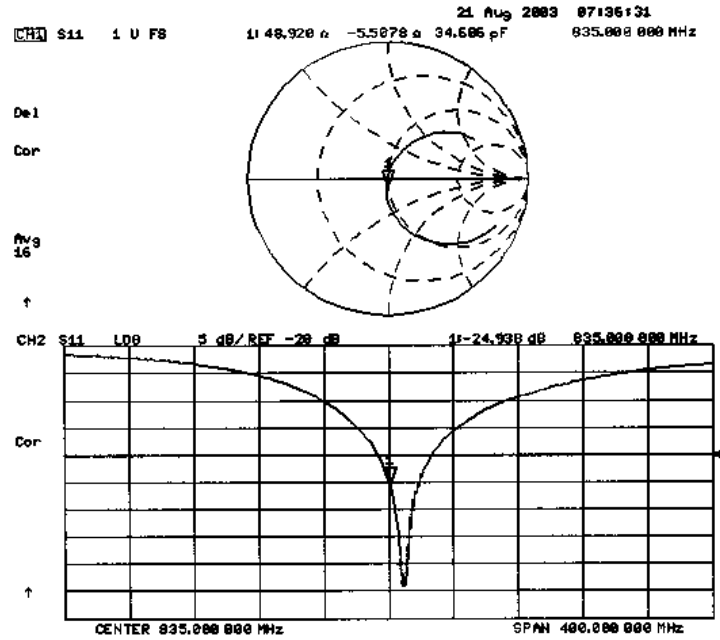
- Probe: ET3DV6 - SN1507; ConvF(6.7, 6.7, 6.7); Calibrated: 1/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 - SN411; Calibrated: 1/16/2003
- Phantom: SAM with CRP - TP1006; Type: SAM 4.0; Serial: TP:1006
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

$P_{\text{in}} = 250 \text{ mW}$; $d = 15 \text{ mm}$ /Area Scan (81x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Reference Value = 55.3 V/m
Power Drift = -0.02 dB
Maximum value of SAR = 2.55 mW/g

$P_{\text{in}} = 250 \text{ mW}$; $d = 15 \text{ mm}$ /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Peak SAR (extrapolated) = 3.52 W/kg
SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.56 mW/g
Reference Value = 55.3 V/m
Power Drift = -0.02 dB
Maximum value of SAR = 2.56 mW/g



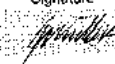
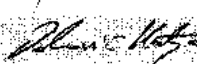
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Calibration Laboratory of
 Schmid & Partner
 Engineering AG
 Zeughausstrasse 43, 8004 Zurich, Switzerland

Client **RIM** Research In Motion

CALIBRATION CERTIFICATE																											
Object(s)	D1900V2 - SN:545																										
Calibration procedure(s)	QA CAL-05.v2 Calibration procedure for dipole validation kits																										
Calibration date:	August 22, 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) <table border="1"> <thead> <tr> <th>Model Type</th> <th>ID #</th> <th>Cal Date (Calibrated by, Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>RF generator R&S SML-03</td> <td>100698</td> <td>27-Mar-2002 (R&S, No. 20-92389)</td> <td>In house check: Mar-05</td> </tr> <tr> <td>Power sensor HP 8431A</td> <td>MY41092317</td> <td>18-Oct-02 (Agilent, No. 28021018)</td> <td>Oct-04</td> </tr> <tr> <td>Power sensor HP 8481A</td> <td>US37292783</td> <td>30-Oct-02 (METAS, No. 252-0236)</td> <td>Oct-03</td> </tr> <tr> <td>Power meter EPM E442</td> <td>GB37480704</td> <td>30-Oct-02 (METAS, No. 252-0236)</td> <td>Oct-03</td> </tr> <tr> <td>Network Analyzer HP 8753E</td> <td>US37390585</td> <td>18-Oct-01 (Agilent, No. 24BR1033101)</td> <td>In house check: Oct 03</td> </tr> </tbody> </table>				Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration	RF generator R&S SML-03	100698	27-Mar-2002 (R&S, No. 20-92389)	In house check: Mar-05	Power sensor HP 8431A	MY41092317	18-Oct-02 (Agilent, No. 28021018)	Oct-04	Power sensor HP 8481A	US37292783	30-Oct-02 (METAS, No. 252-0236)	Oct-03	Power meter EPM E442	GB37480704	30-Oct-02 (METAS, No. 252-0236)	Oct-03	Network Analyzer HP 8753E	US37390585	18-Oct-01 (Agilent, No. 24BR1033101)	In house check: Oct 03
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Calibrated by:	Name Luith Mueller	Function Technician	Signature 																								
Approved by:	Name Katja Pokovic	Function Laboratory Director	Signature 																								
Date issued: August 24, 2003																											
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Schmid & Partner Engineering AG

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Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 9779
info@speag.com, <http://www.speag.com>

DASY

Dipole Validation Kit

Type: D1900V2

Serial: 545

Manufactured: November 15, 2001
Calibrated: August 22, 2003

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1. Measurement Conditions

The measurements were performed in the flat section of the SAM twin phantom filled with head simulating solution of the following electrical parameters at 1900 MHz:

Relative Dielectricity	40.2	± 5%
Conductivity	1.46 mho/m	± 5%

The DASY4 System with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 5.2 at 1900 MHz) was used for the measurements.

The dipole was mounted on the small tripod so that the dipole feedpoint was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10mm from dipole center to the solution surface. The included distance spacer was used during measurements for accurate distance positioning.

The coarse grid with a grid spacing of 15mm was aligned with the dipole. The 7x7x7 fine cube was chosen for cube integration.

The dipole input power (forward power) was 250 mW ± 3 %. The results are normalized to 1W input power.

2. SAR Measurement with DASY4 System

Standard SAR-measurements were performed according to the measurement conditions described in section 1. The results (see figure supplied) have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ET3DV6 SN:1507 and applying the advanced extrapolation are:

averaged over 1 cm ³ (1 g) of tissue:	41.2 mW/g ± 16.8 % (k=2)¹
averaged over 10 cm ³ (10 g) of tissue:	21.3 mW/g ± 16.2 % (k=2)¹

¹ validation uncertainty

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Test Laboratory: SPEAG, Zurich, Switzerland
File Name: SNS45_SN1507_HSL1900_220803.da4

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN545
Program: Dipole Calibration

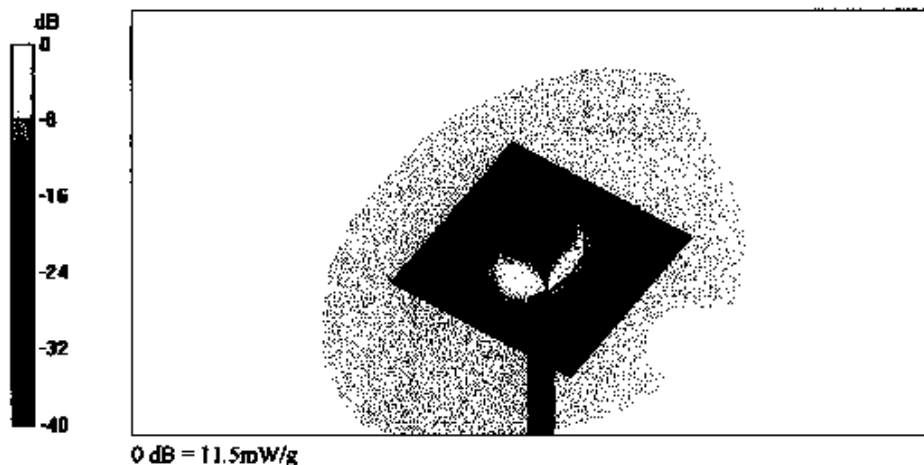
Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL 1900 MHz ($\sigma = 1.46 \text{ mho/m}$, $\epsilon_r = 40.17$, $\rho = 1000 \text{ kg/m}^3$)
Phantom section: Flat Section
Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(5.2, 5.2, 5.2); Calibrated: 1/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 - SN411; Calibrated: 1/16/2003
- Phantom: SAM with CRP - TP1006; Type: SAM 4.0; Serial: TP:1006
- Measurement SW: DAS4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

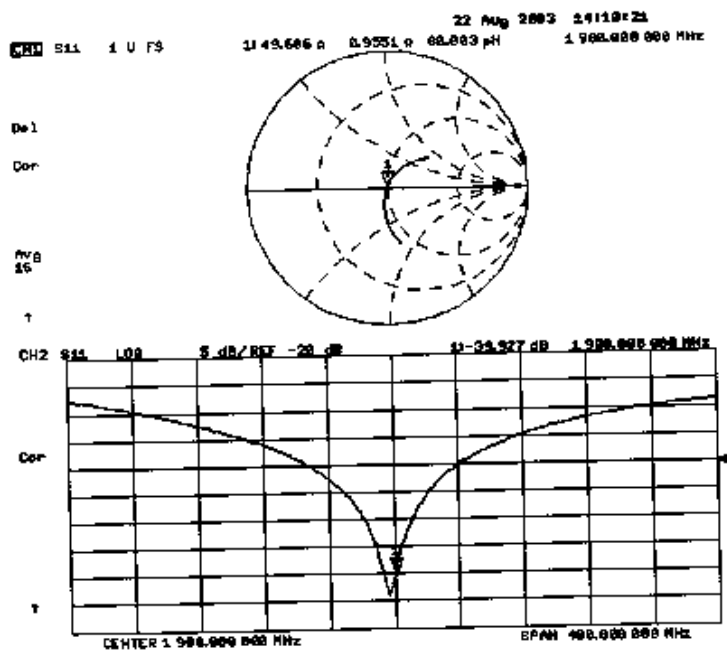
$P_{in} = 250 \text{ mW}$; $d = 10 \text{ mm}$ /Area Scan (81x81x1); Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Reference Value = 93.6 V/m
Power Drift = 0.05 dB
Maximum value of SAR = 11.5 mW/g

$P_{in} = 250 \text{ mW}$; $d = 10 \text{ mm}$ /Zoom Scan (7x7x7)/Cube 0; Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.32 mW/g
Reference Value = 93.6 V/m
Power Drift = 0.05 dB
Maximum value of SAR = 11.5 mW/g



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APPENDIX E: SAR SET UP PHOTOS

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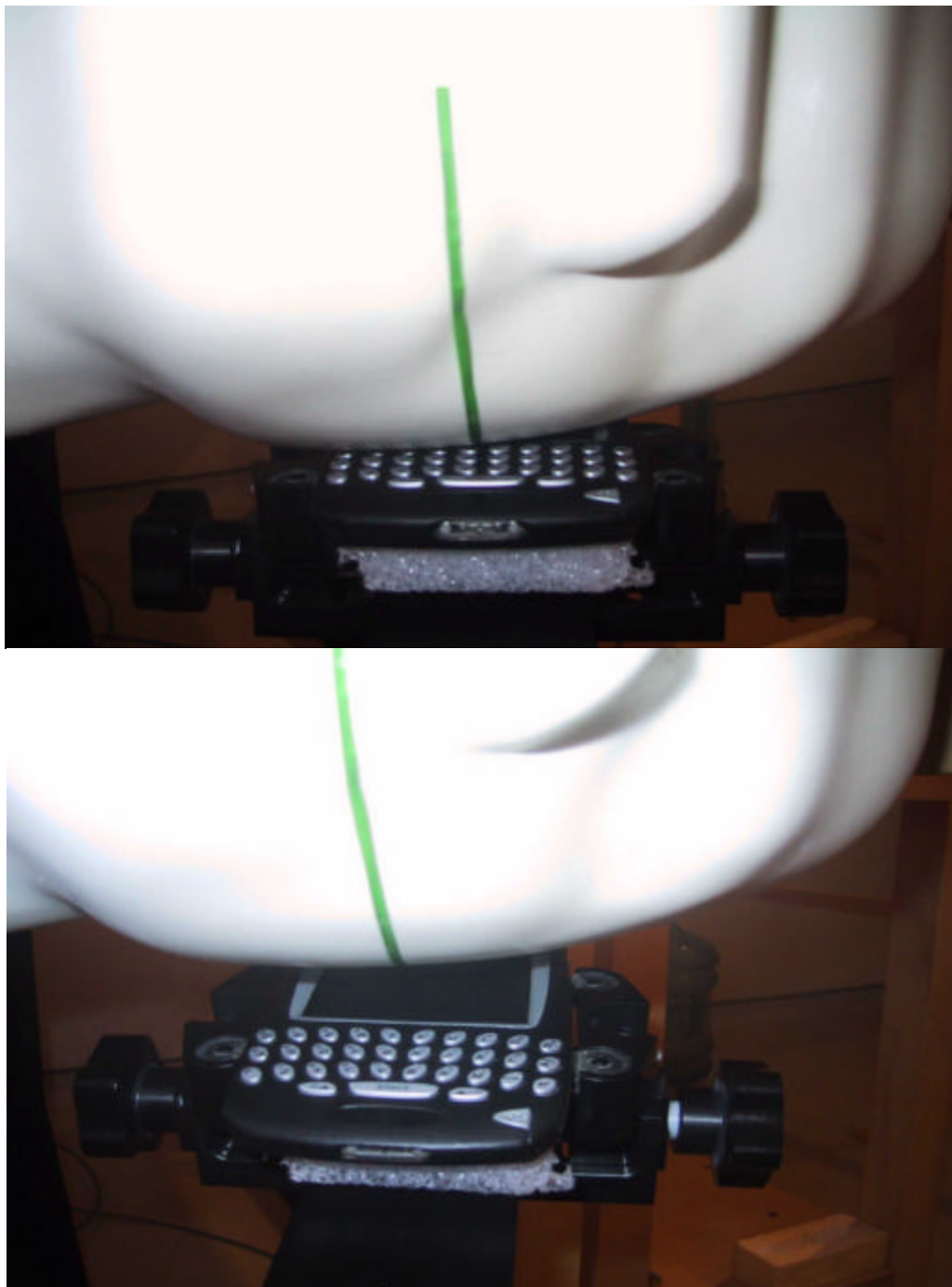


Figure E1. Left ear configuration

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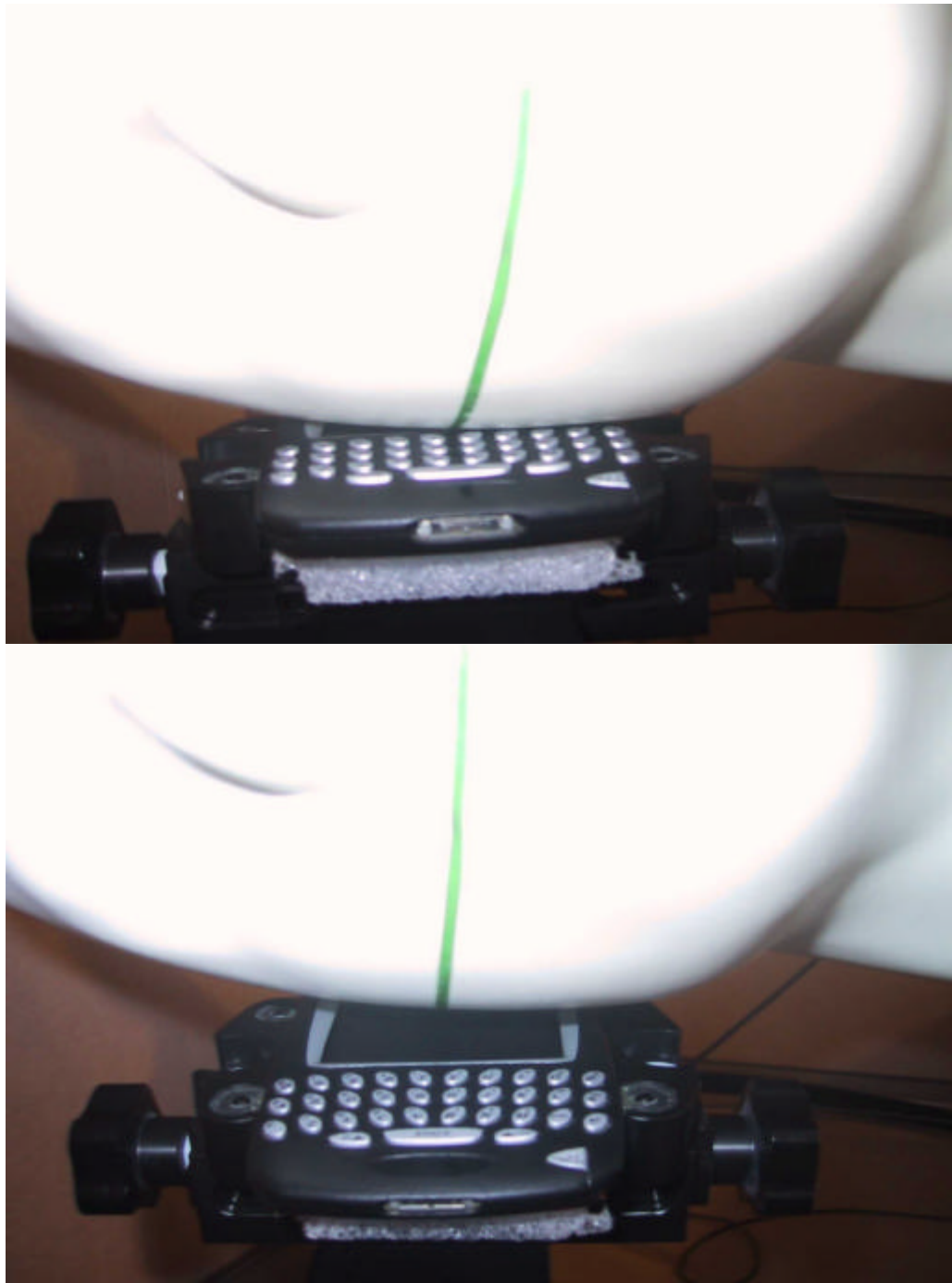


Figure E2. Right ear configuration

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Figure E3. Body worn configuration with Plastic Holster ASY-0399-001 and headset

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Figure E4. Body worn configuration with Leather Swivel Holster HDW-04890-001 and headset