# Appendix B

# Measurement Plots

Date/Time: 05/24/05 07:31:58

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## Dipol Valid.1900(h)_250mW_24.5.05

### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d025

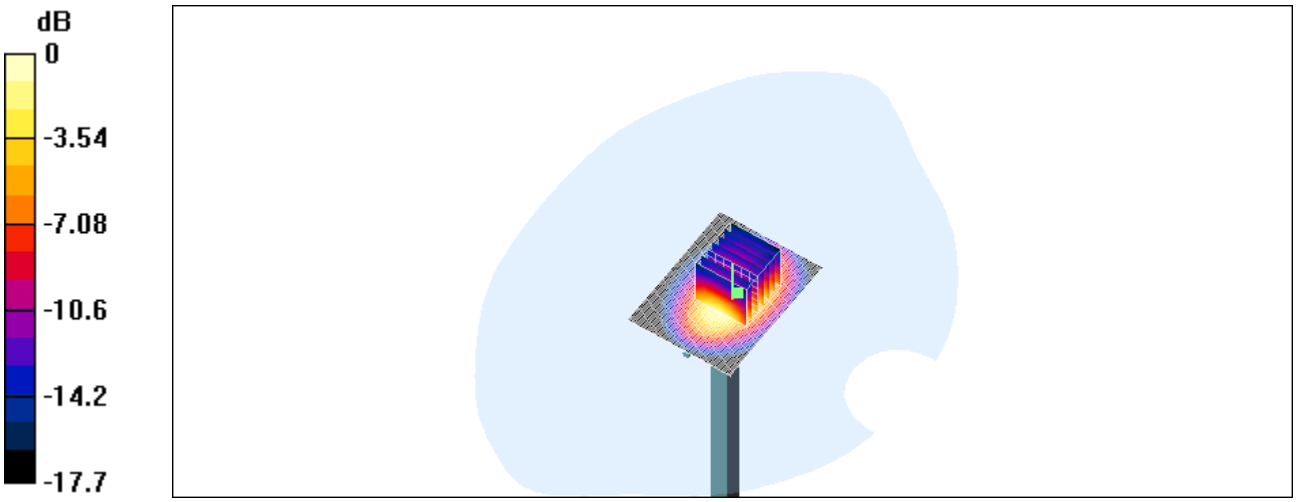
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: Head 1900 MHz Medium parameters used: f = 1900 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Dipol 1900 (250mW)/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.5 mW/g

**Dipol 1900 (250mW)/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 87.7 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 17.5 W/kg
**SAR(1 g) = 9.98 mW/g; SAR(10 g) = 5.2 mW/g**
Maximum value of SAR (measured) = 11.2 mW/g




0 dB = 11.2mW/g

Date/Time: 05/26/05 07:21:49

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## Dipol Valid.1900(m)_250mW26.5.05

### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d025

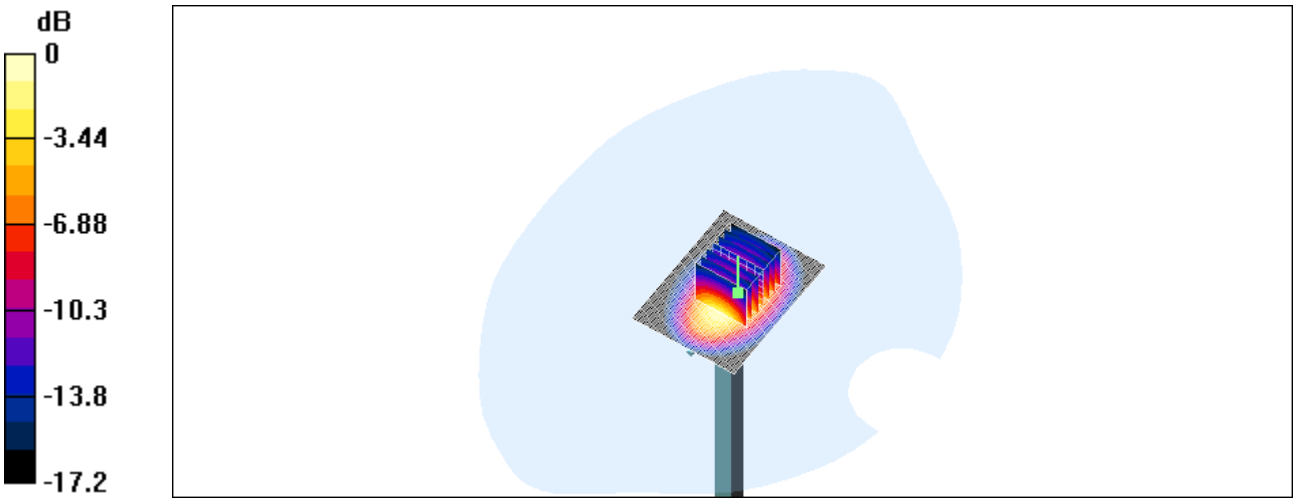
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: Muscle 1900 MHz Medium parameters used: f = 1900 MHz; $\sigma$ = 1.58 mho/m; $\varepsilon_r$ = 51.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**Dipol 1900 (250mW)/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 12.8 mW/g

**Dipol 1900 (250mW)/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.7 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 18.6 W/kg
**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.66 mW/g**
Maximum value of SAR (measured) = 12.3 mW/g




0 dB = 12.3mW/g

Date/Time: 05/24/05 14:46:50

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## right_ch0_tilted

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

Communication System: 1.9 GHz DECT; Frequency: 1908 MHz;Duty Cycle: 1:12.3
Medium: Head 1900 MHz Medium parameters used: f = 1908 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

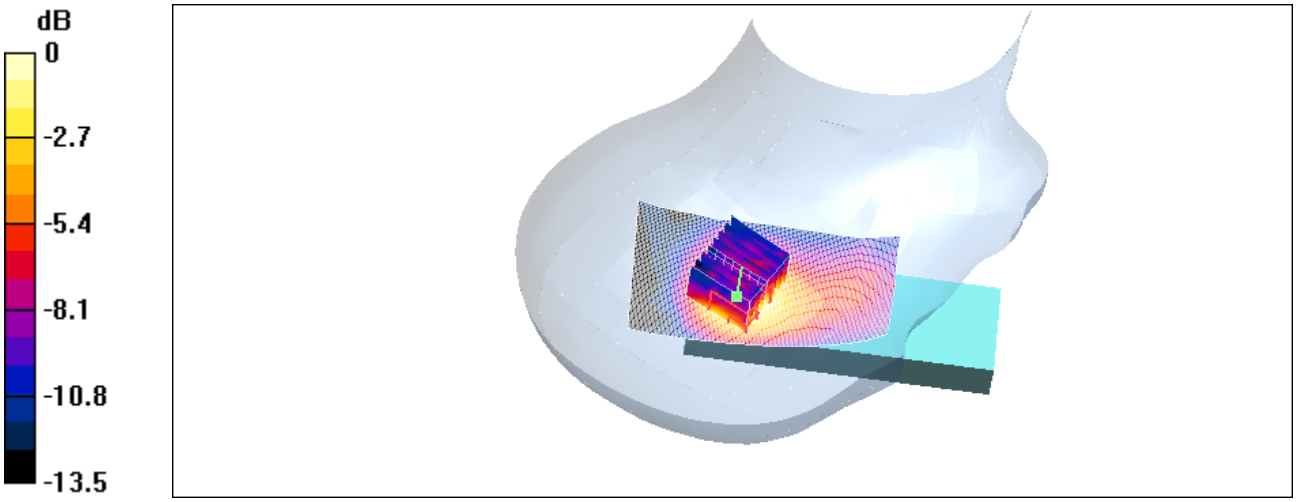
DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.018 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.49 V/m; Power Drift = -0.002 dB
Peak SAR (extrapolated) = 127.9 W/kg
**SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.00956 mW/g**

Maximum value of SAR (measured) = 0.017 mW/g




0 dB = 0.017mW/g

Date/Time: 05/24/05 12:34:58

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## right_ch2_cheek

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

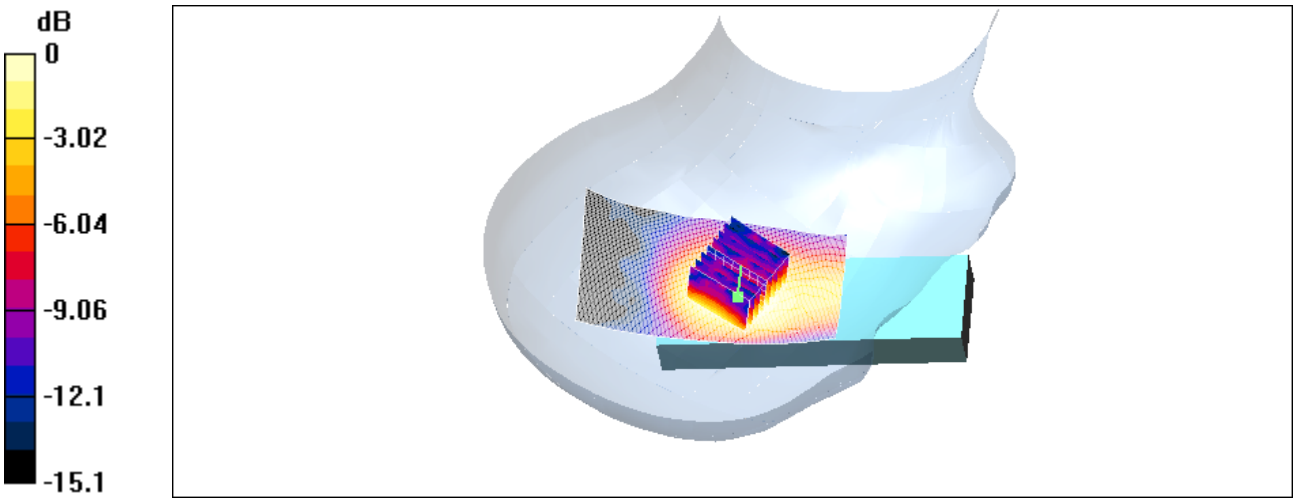
Communication System: 1.9 GHz DECT; Frequency: 1905 MHz;Duty Cycle: 1:12.3
Medium: Head 1900 MHz Medium parameters used: f = 1905 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.015 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.88 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 0.021 W/kg
**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00874 mW/g**
Maximum value of SAR (measured) = 0.015 mW/g




0 dB = 0.015mW/g

Date/Time: 05/24/05 13:16:09

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## right_ch2_tilted

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

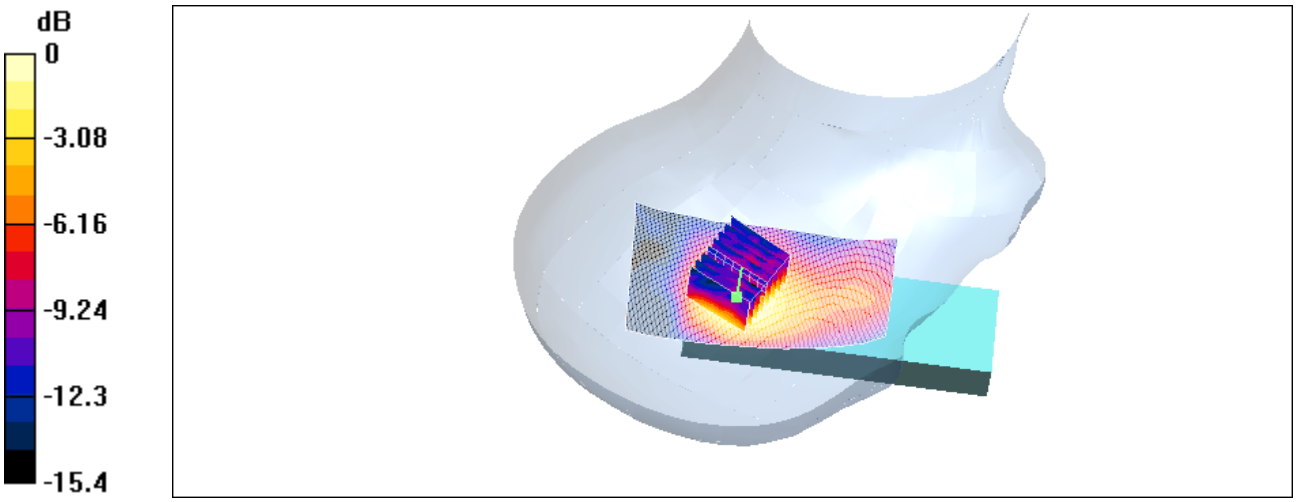
Communication System: 1.9 GHz DECT; Frequency: 1905 MHz;Duty Cycle: 1:12.3
Medium: Head 1900 MHz Medium parameters used: f = 1905 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.016 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.49 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.024 W/kg
**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00881 mW/g**
Maximum value of SAR (measured) = 0.016 mW/g




0 dB = 0.016mW/g

Date/Time: 05/24/05 15:16:13

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## right_ch4_tilted

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

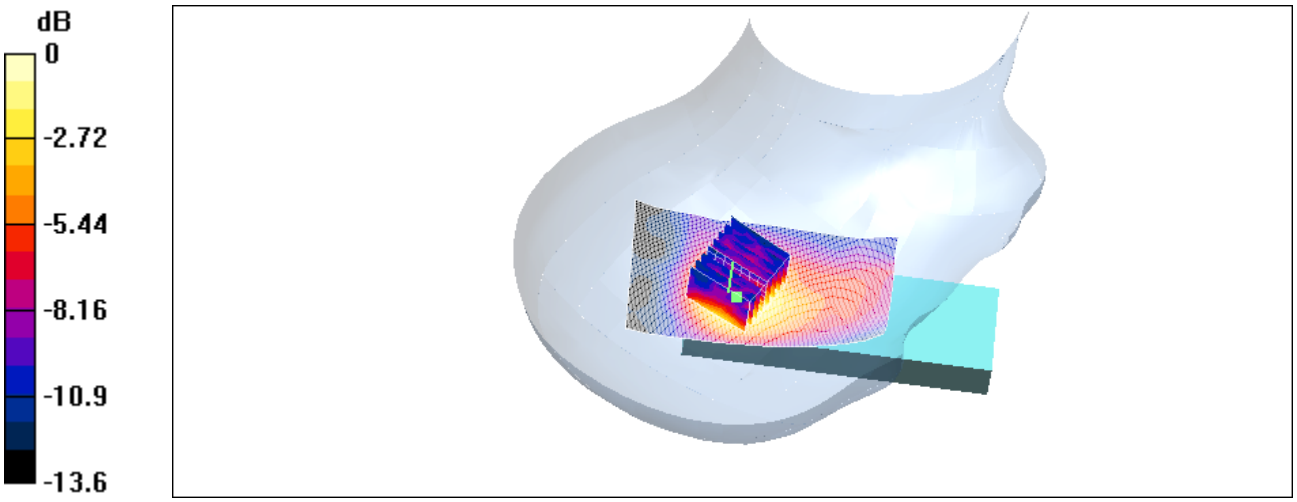
Communication System: 1.9 GHz DECT; Frequency: 1901 MHz;Duty Cycle: 1:12.3
Medium: Head 1900 MHz Medium parameters used: f = 1901 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.016 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.46 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.024 W/kg
**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00899 mW/g**
Maximum value of SAR (measured) = 0.016 mW/g




0 dB = 0.016mW/g

Date/Time: 05/24/05 14:17:01

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## left_ch2_cheek

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

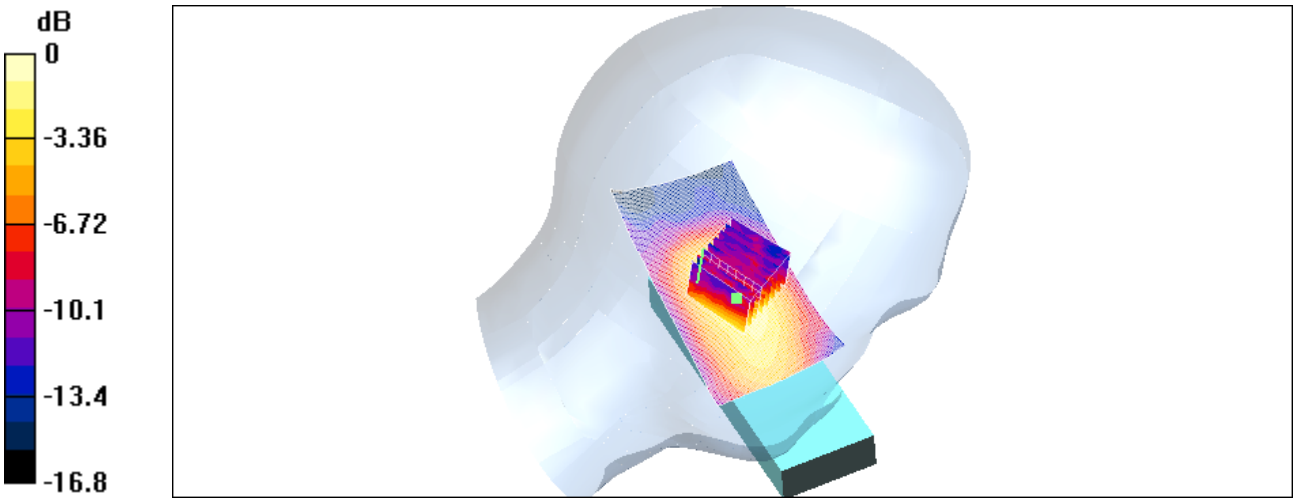
Communication System: 1.9 GHz DECT; Frequency: 1905 MHz;Duty Cycle: 1:12.3
Medium: Head 1900 MHz Medium parameters used: f = 1905 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.013 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.78 V/m; Power Drift = 0.0 dB
Peak SAR (extrapolated) = 0.019 W/kg
**SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00781 mW/g**
Maximum value of SAR (measured) = 0.017 mW/g




0 dB = 0.017mW/g

Date/Time: 05/24/05 13:45:24

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## left_ch2_tilted

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

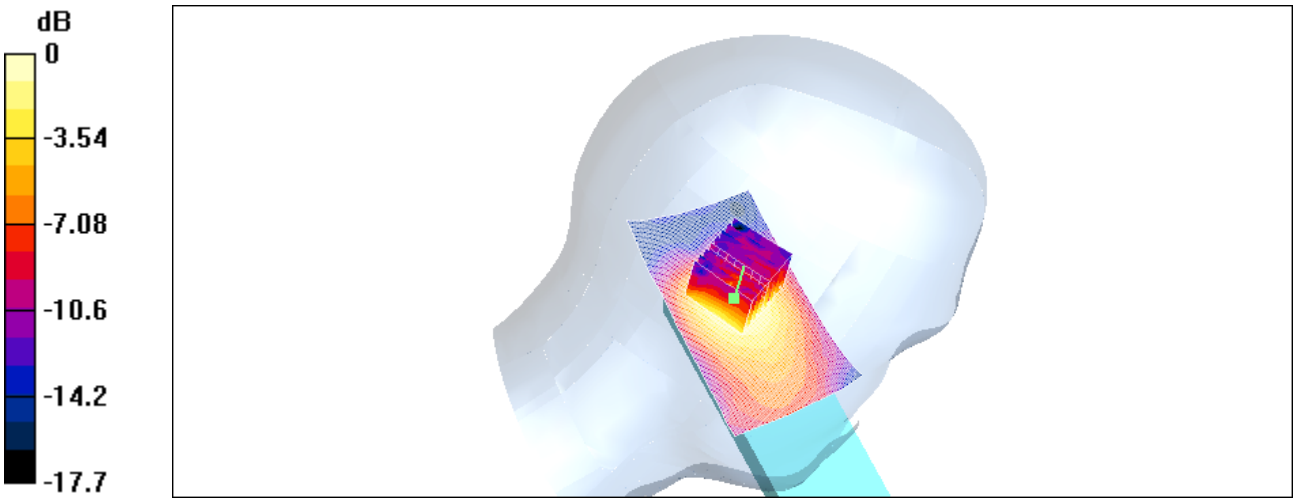
Communication System: 1.9 GHz DECT; Frequency: 1905 MHz;Duty Cycle: 1:12.3
Medium: Head 1900 MHz Medium parameters used: f = 1905 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 39.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x131x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.014 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.32 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.137 W/kg
**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00783 mW/g**
Maximum value of SAR (measured) = 0.014 mW/g




0 dB = 0.014mW/g

Date/Time: 05/26/05 08:22:29

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## flat_ch2_front_15mm

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

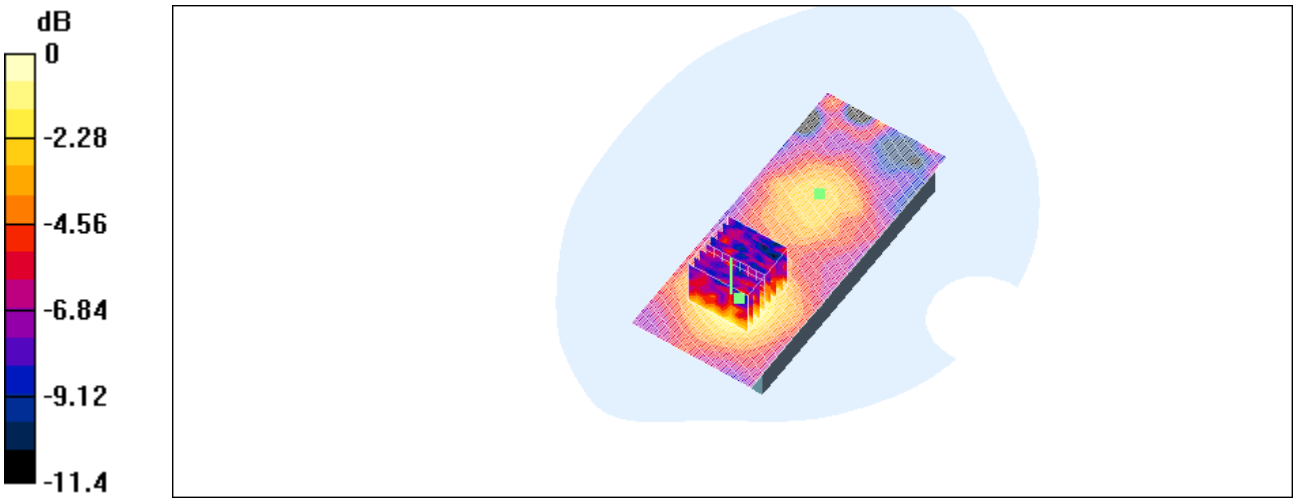
Communication System: 1.9 GHz DECT; Frequency: 1905 MHz;Duty Cycle: 1:12.3
Medium: Muscle 1900 MHz Medium parameters used: f = 1905 MHz; $\sigma$ = 1.57 mho/m; $\varepsilon_r$ = 51.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x171x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.00623 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.6 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.011 W/kg
**SAR(1 g) = 0.00575 mW/g; SAR(10 g) = 0.00388 mW/g**
Maximum value of SAR (measured) = 0.00663 mW/g




0 dB = 0.00663mW/g

Date/Time: 05/26/05 09:54:21

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## flat_ch2_back_15mm

**DUT: KIRK telecomA/S; Type: 1.9GHz Communication System (portable part); Serial: PP3N 1G9**

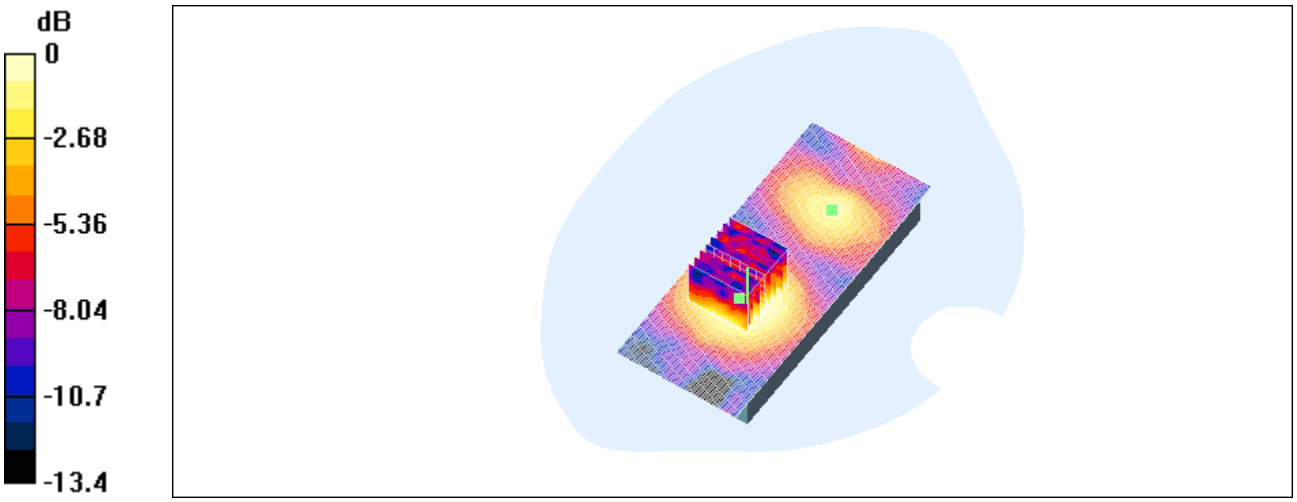
Communication System: 1.9 GHz DECT; Frequency: 1905 MHz;Duty Cycle: 1:12.3
Medium: Muscle 1900 MHz Medium parameters used: f = 1905 MHz; $\sigma$ = 1.57 mho/m; $\varepsilon_r$ = 51.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2002
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

**PP3N/Area Scan (71x171x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.011 mW/g

**PP3N/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.05 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 0.015 W/kg
**SAR(1 g) = 0.00961 mW/g; SAR(10 g) = 0.00627 mW/g**
Maximum value of SAR (measured) = 0.010 mW/g



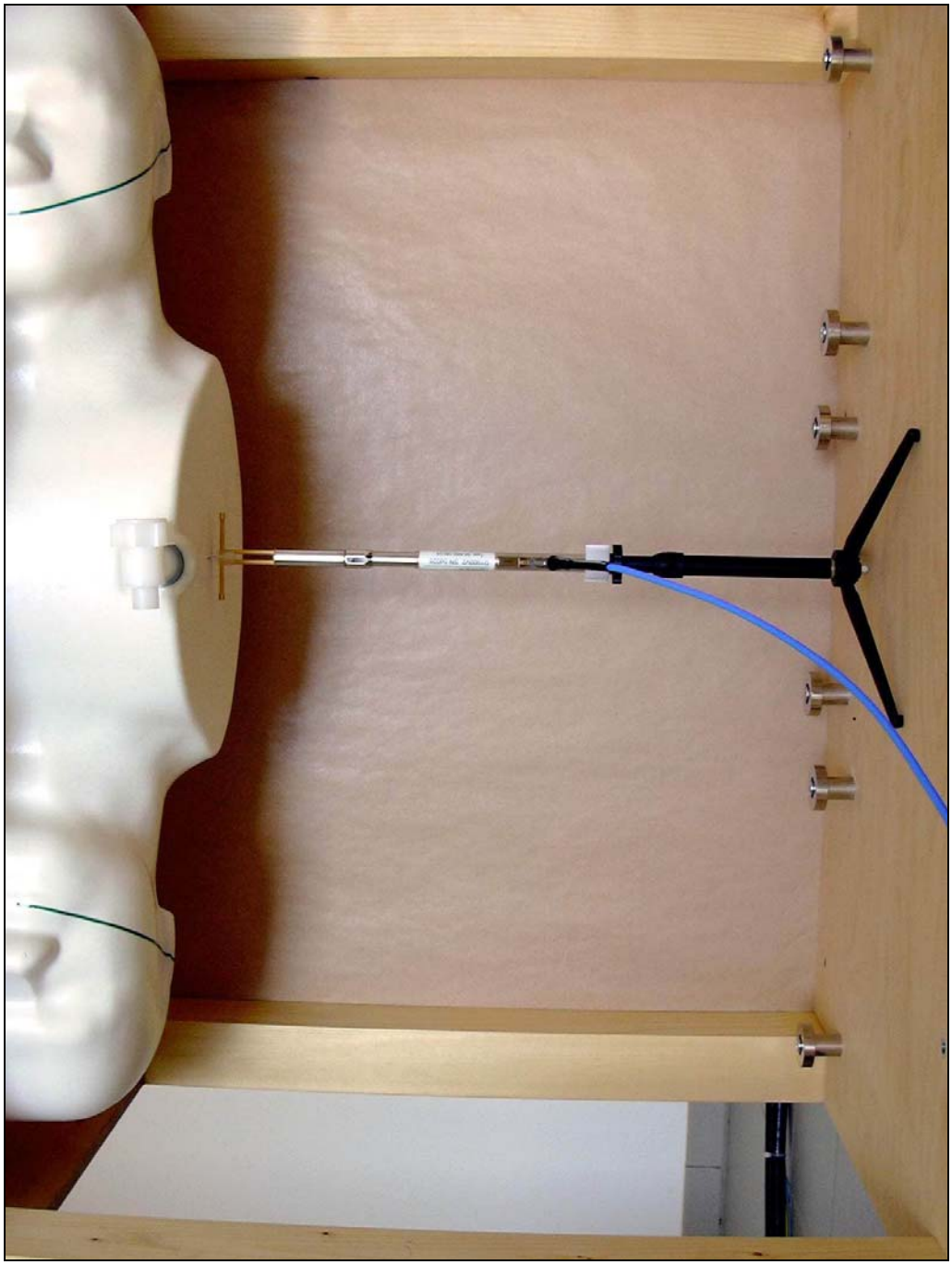

0 dB = 0.010mW/g

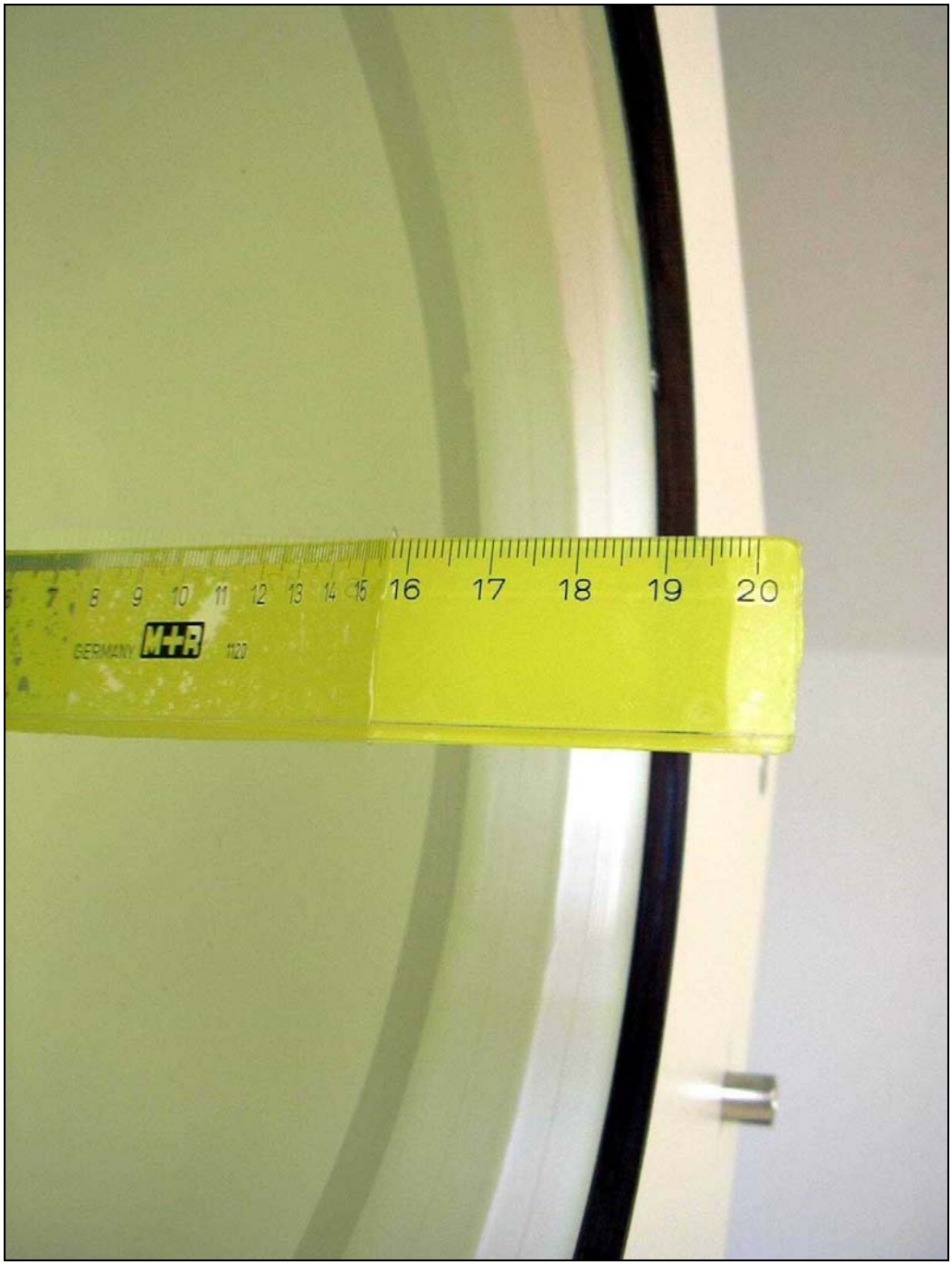
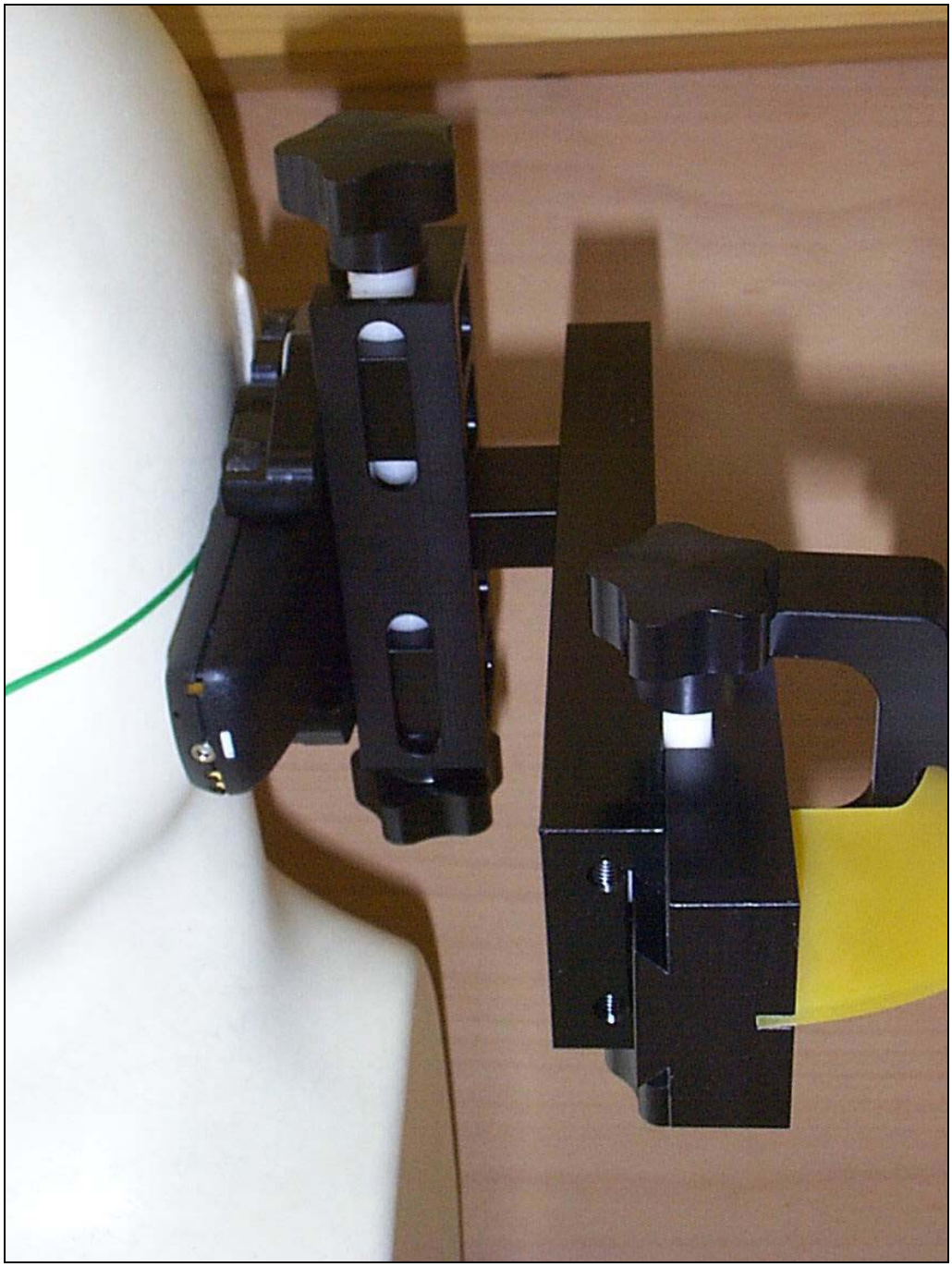
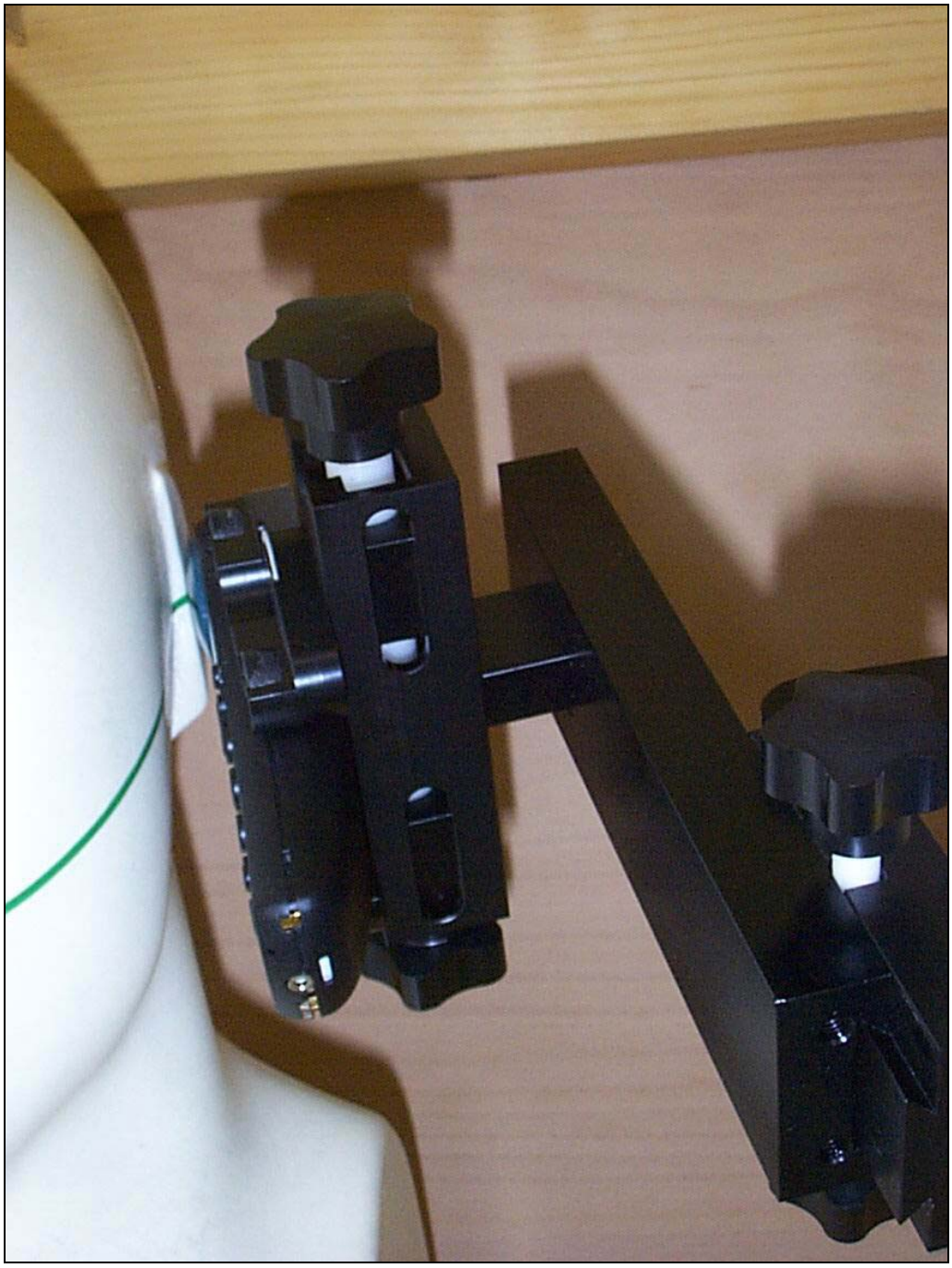
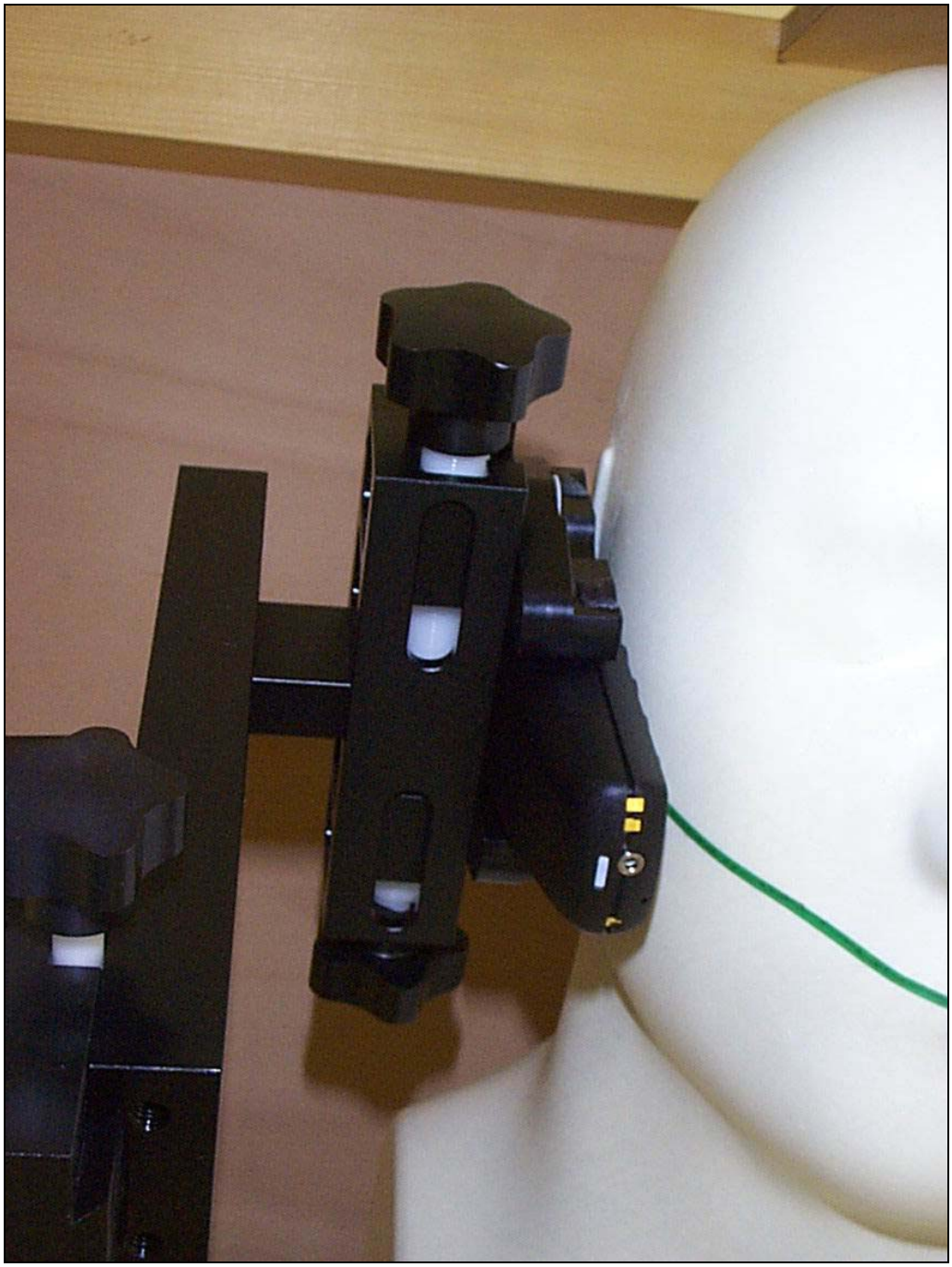
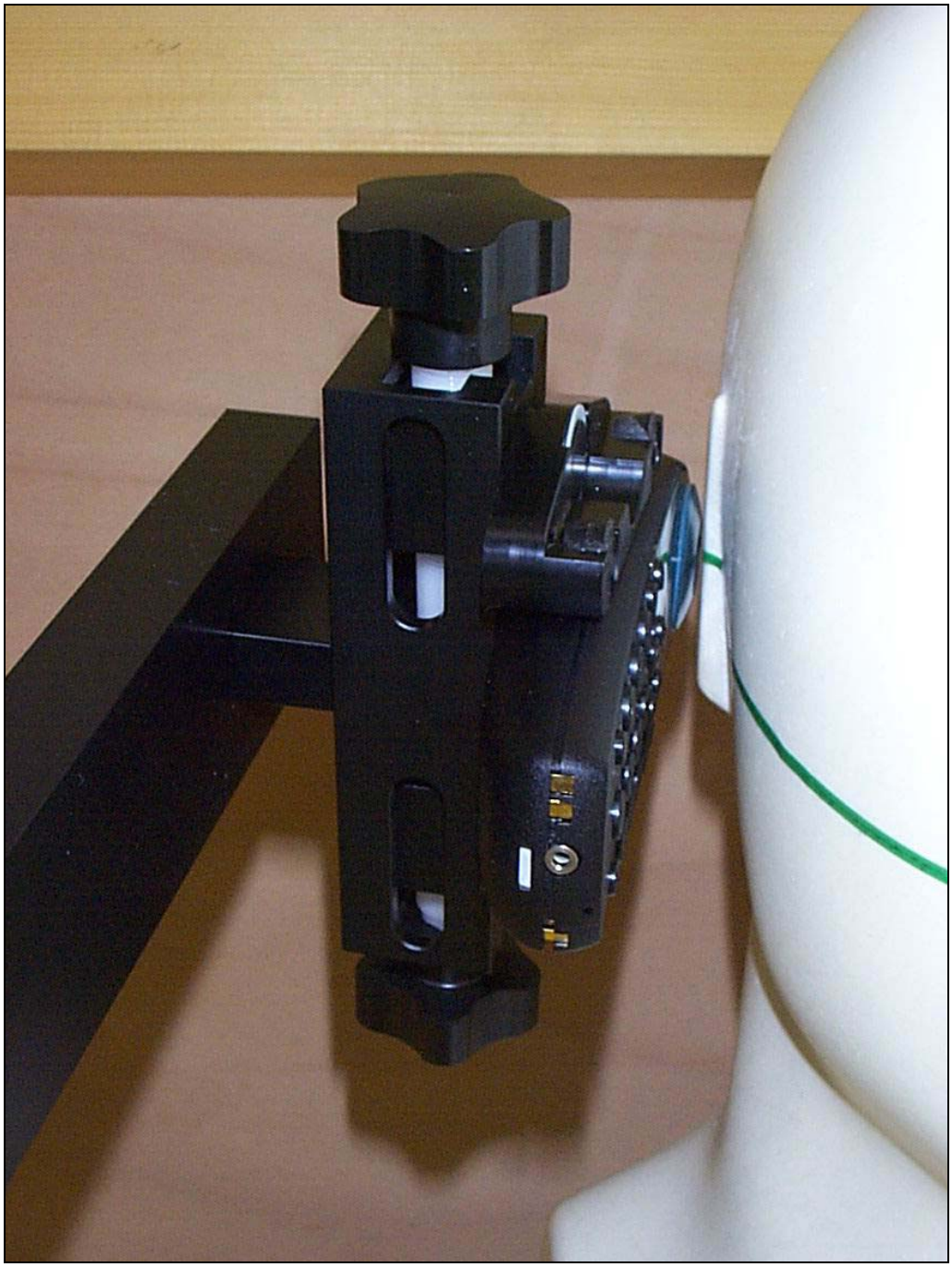
# Appendix C

## Pictures

# Appendix

## C. Pictures




7 8 9 10 11 12 13 14 15 16 17 18 19 20
GERMANY
M+R