APPENDIX A - SAR MEASUREMENT DATA

Date Tested: 11/06/04

Face-Held SAR - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

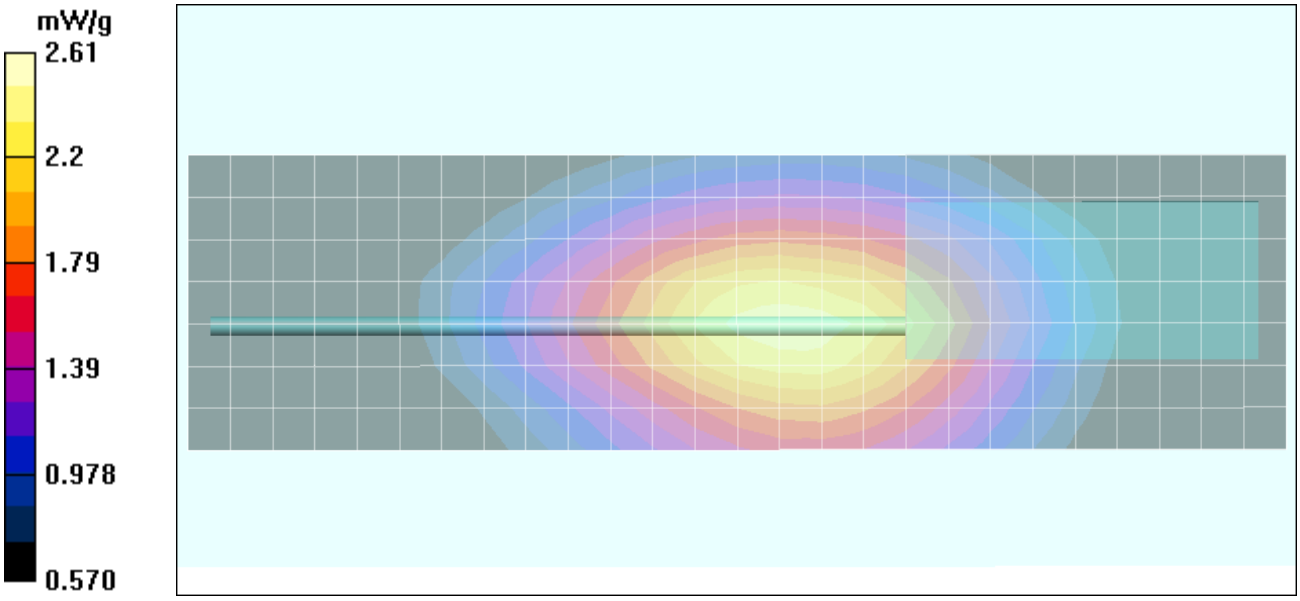
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.19 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

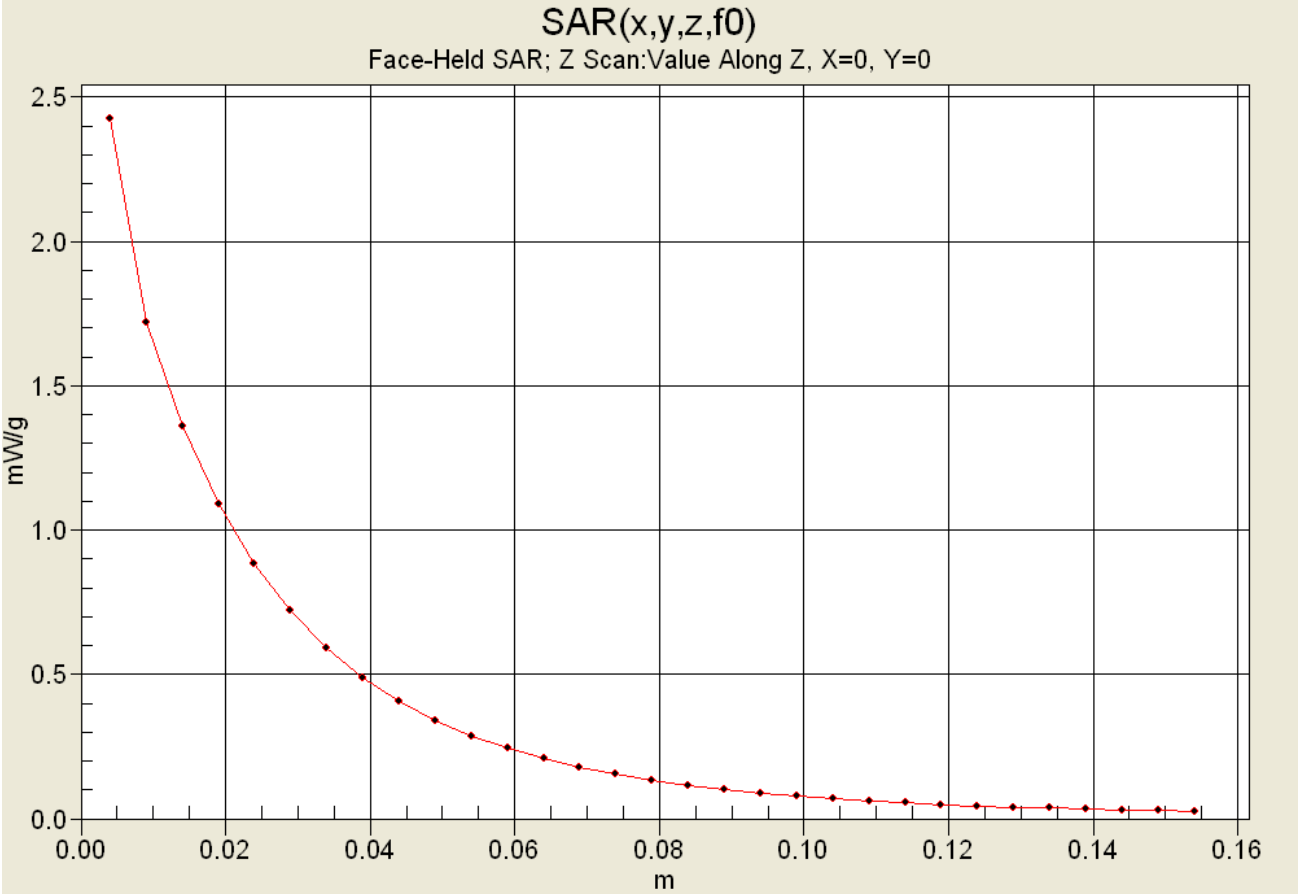
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x27x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 56.9 V/m; Power Drift = -0.766 dB
Peak SAR (extrapolated) = 3.94 W/kg
SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.89 mW/g



Z-Axis Scan



Date Tested: 11/23/04

Face-Held SAR - Whip Antenna (P/N: KRA-26M3)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

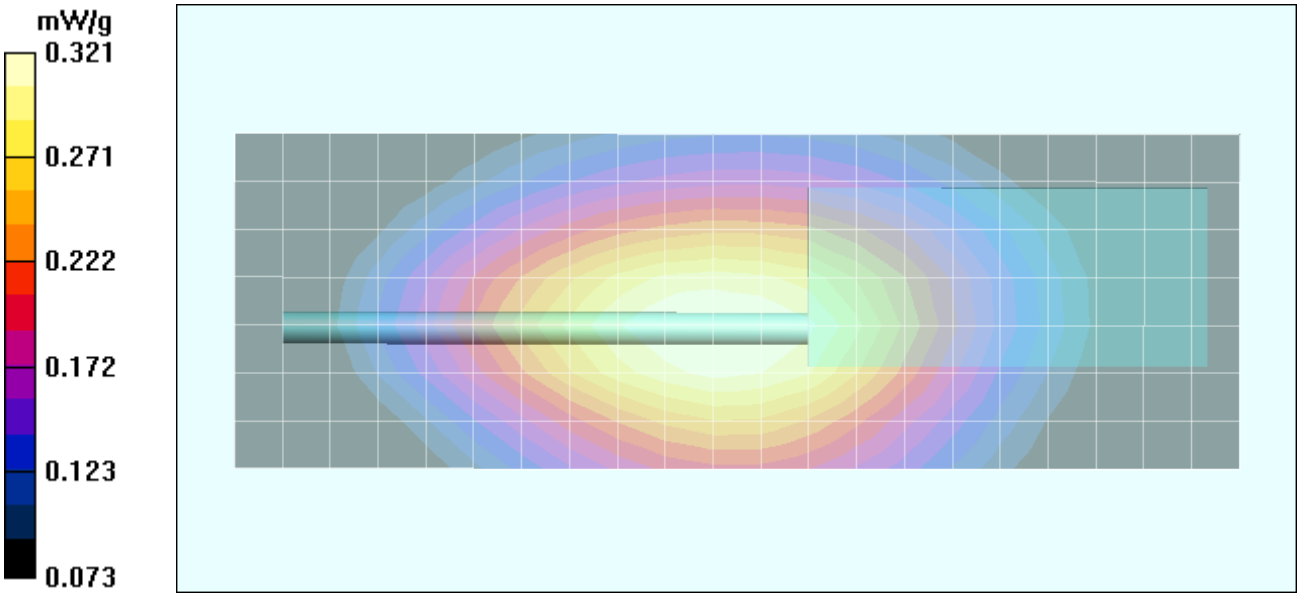
Ambient Temp: 23.5 °C; Fluid Temp: 21.3 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 136.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.22 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.75 mho/m; ε_r = 53.7; ρ = 1000 kg/m^3)

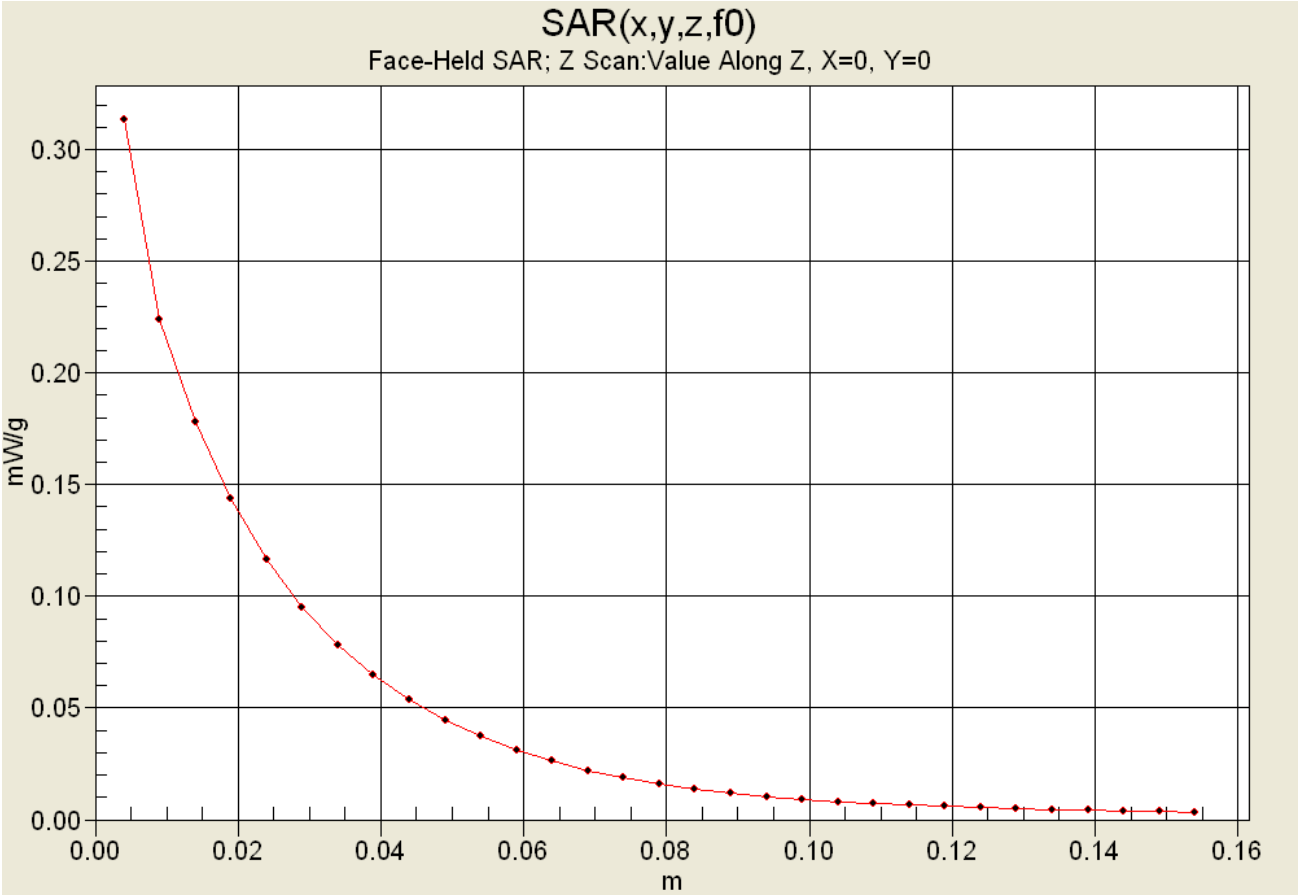
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Low Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.4 V/m; Power Drift = -0.200 dB
Peak SAR (extrapolated) = 0.485 W/kg
SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.233 mW/g



Z-Axis Scan



Date Tested: 11/06/04

Face-Held SAR - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

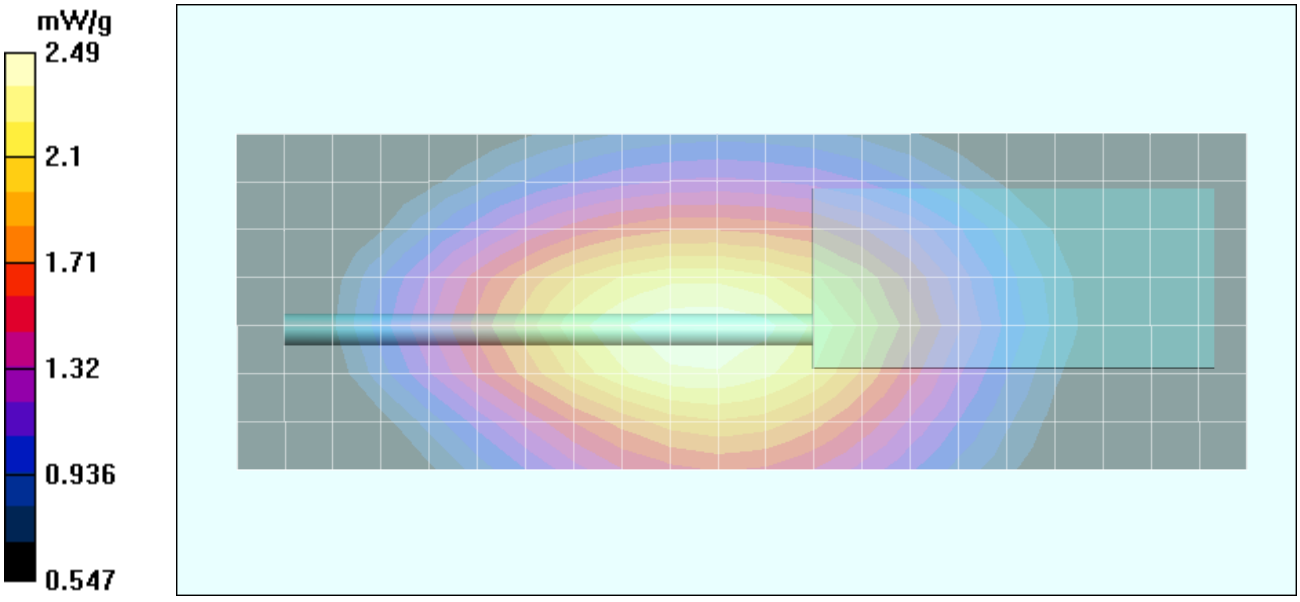
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.14 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 55.3 V/m; Power Drift = -0.595 dB
Peak SAR (extrapolated) = 3.74 W/kg
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.8 mW/g



Date Tested: 11/06/04

Face-Held SAR - Whip Antenna (P/N: KRA-26M2)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

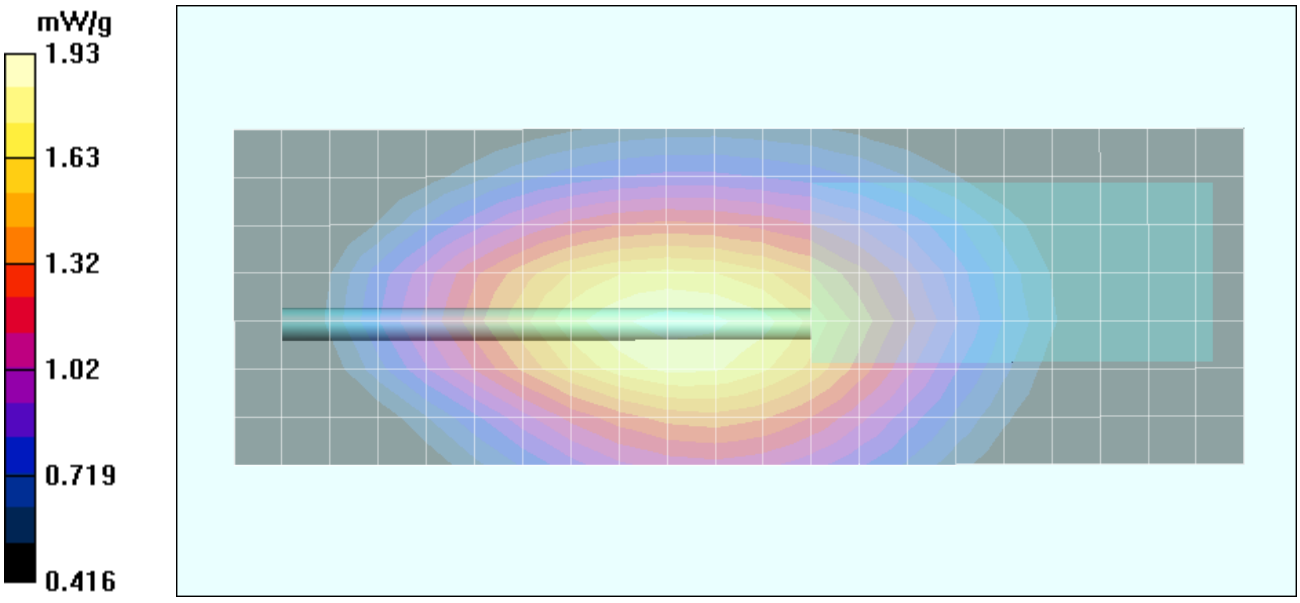
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 173.9 MHz; Duty Cycle: 1:1
RF Output Power: 36.90 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - High Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 49.8 V/m; Power Drift = -0.853 dB
Peak SAR (extrapolated) = 2.93 W/kg
SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.4 mW/g



Date Tested: 11/06/04

Face-Held SAR - Stubby Antenna (P/N: KRA-22M3)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

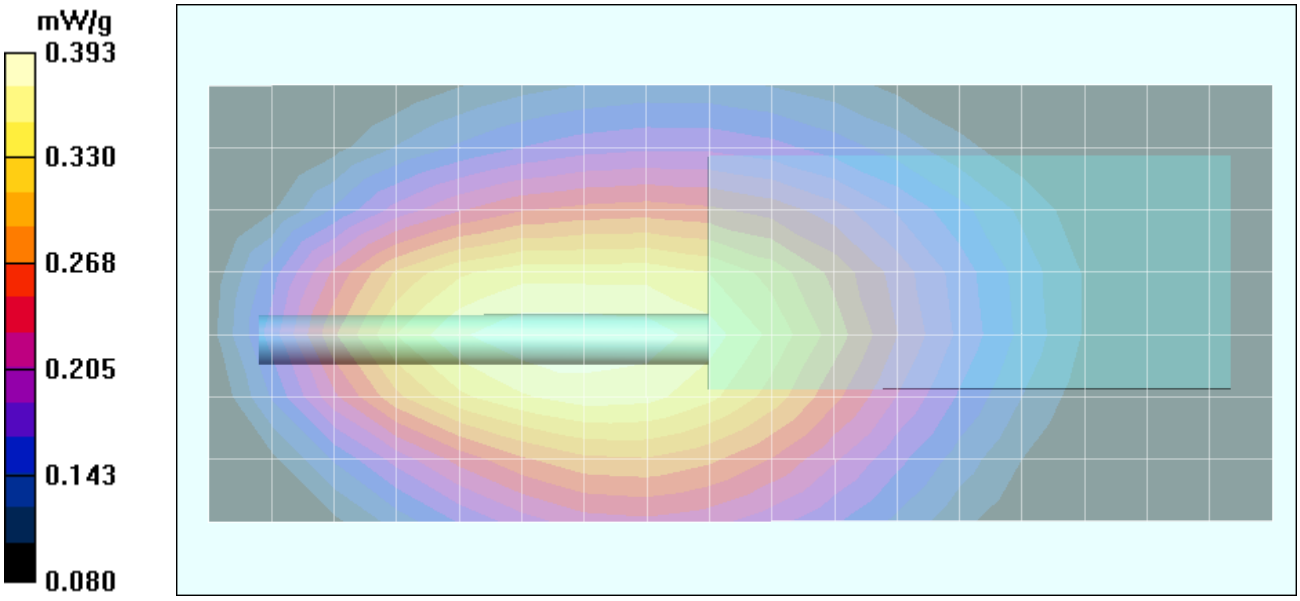
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 136.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.27 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Low Channel/Area Scan 2 (8x18x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.6 V/m; Power Drift = -0.0870 dB
Peak SAR (extrapolated) = 0.634 W/kg
SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.283 mW/g



Date Tested: 11/06/04

Face-Held SAR - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

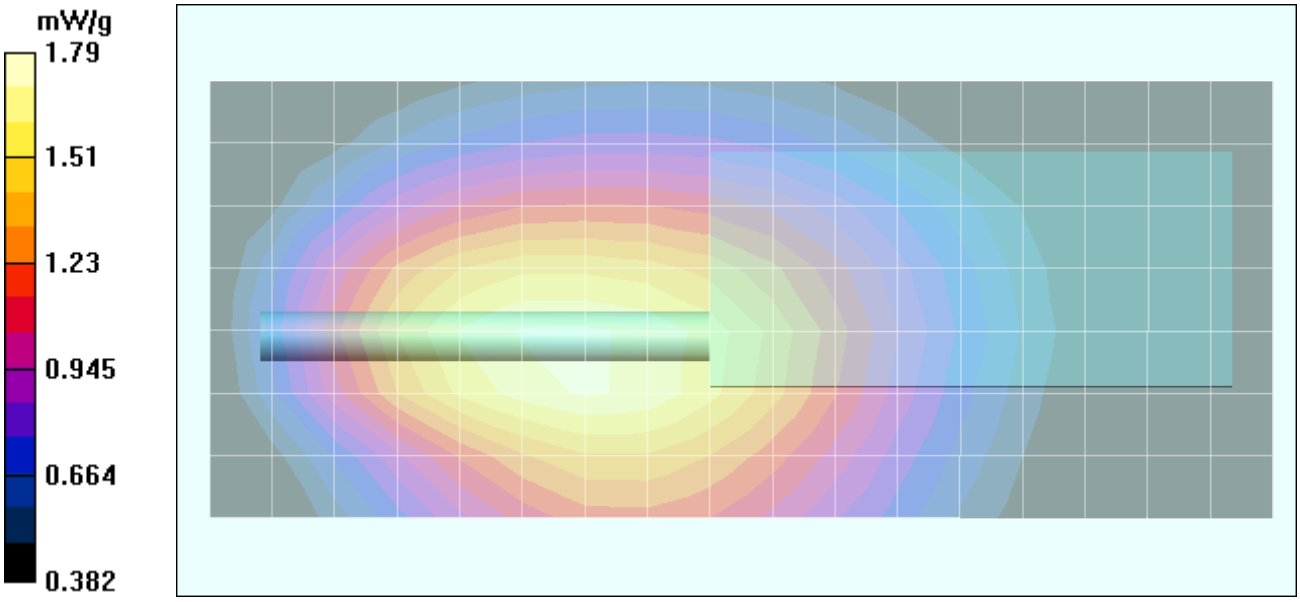
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.19 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x18x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 49.4 V/m; Power Drift = -0.984 dB
Peak SAR (extrapolated) = 2.77 W/kg
SAR(1 g) = 1.74 mW/g; SAR(10 g) = 1.28 mW/g



Date Tested: 11/06/04

Face-Held SAR - Stubby Antenna (P/N: KRA-22M2)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

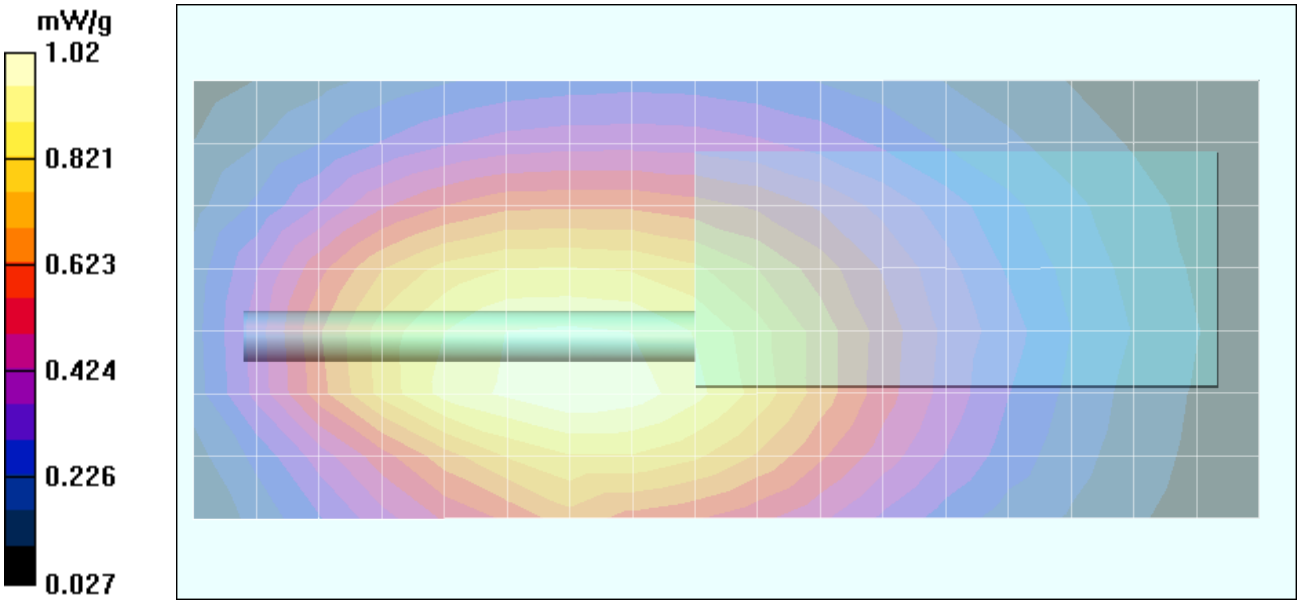
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 173.9 MHz; Duty Cycle: 1:1
RF Output Power: 36.99 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: HSL150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - High Channel/Area Scan (8x18x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - High Channel/Zoom Scan 2 (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 38.2 V/m; Power Drift = -1.48 dB
Peak SAR (extrapolated) = 1.5 W/kg
SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.653 mW/g



Date Tested: 11/06/04

Face-Held SAR - Stubby Antenna (P/N: KRA-16M3)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

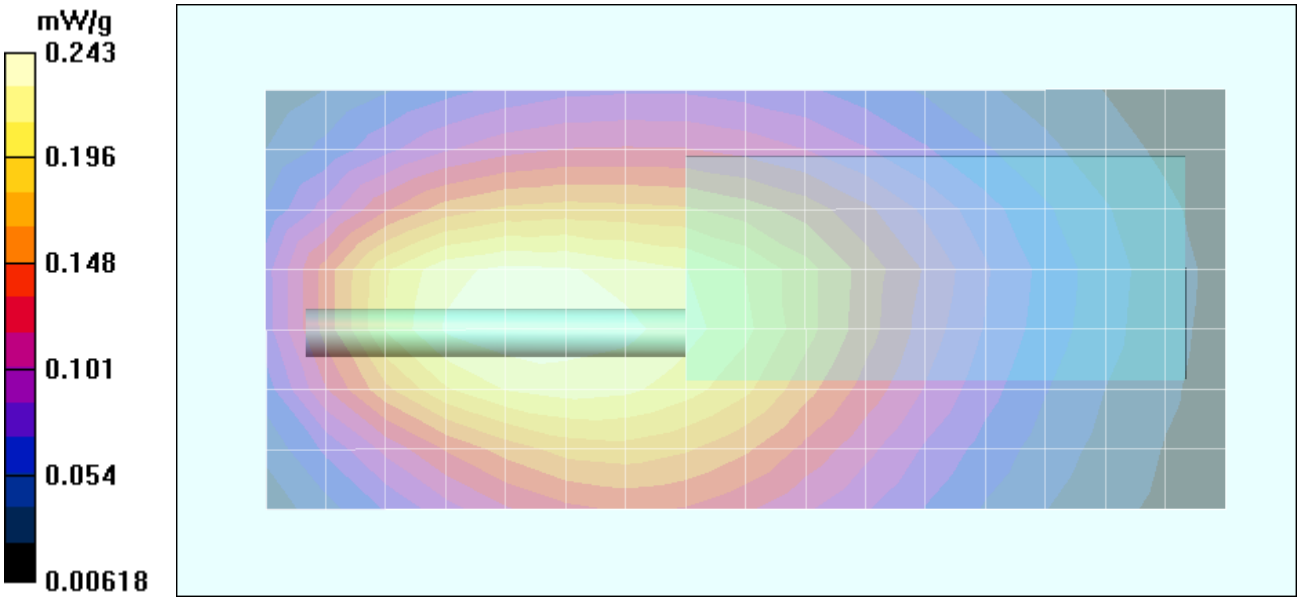
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 136.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.20 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Low Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.9 V/m; Power Drift = -0.0935 dB
Peak SAR (extrapolated) = 0.397 W/kg
SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.169 mW/g



Date Tested: 11/06/04

Face-Held SAR - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

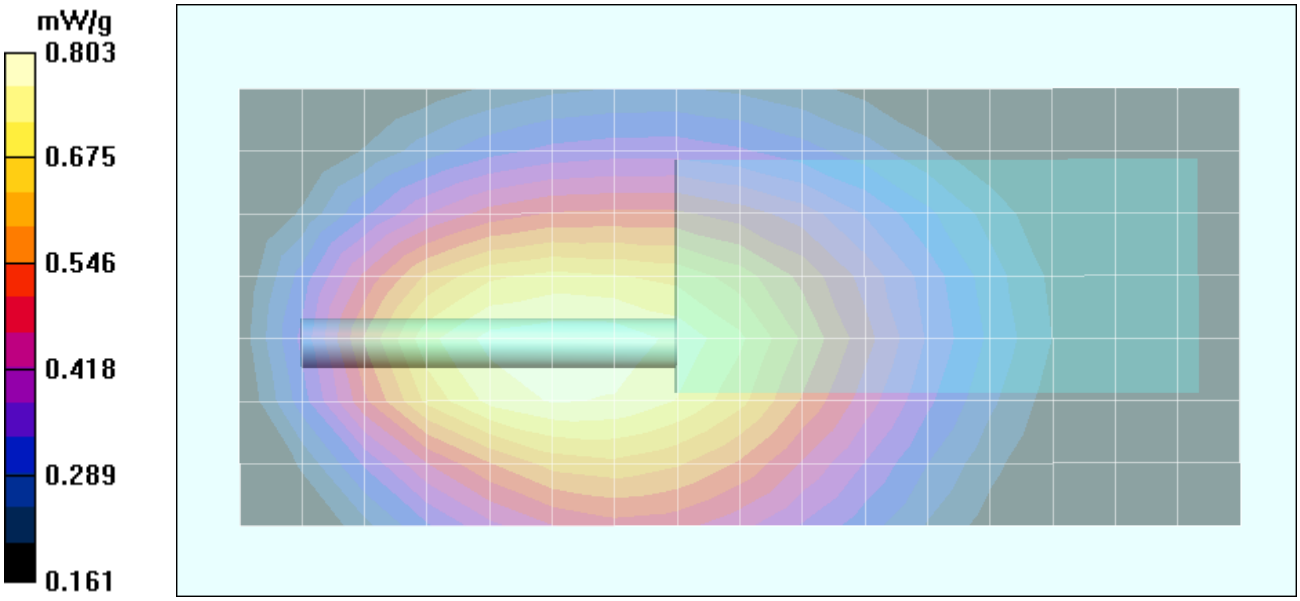
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.12 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.6 V/m; Power Drift = -0.187 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.569 mW/g



Date Tested: 11/06/04

Face-Held SAR - Stubby Antenna (P/N: KRA-16M2)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

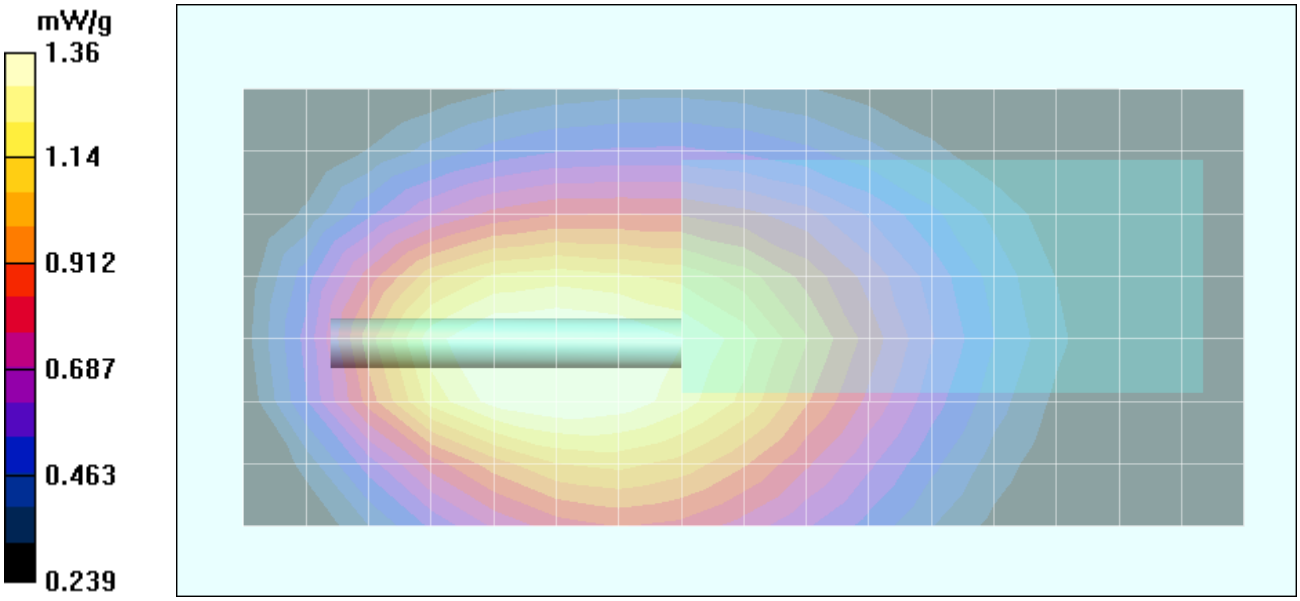
Ambient Temp: 22.7 °C; Fluid Temp: 21.7 ºC; Barometric Pressure: 102.2 kPa; Humidity: 33%

Communication System: FM VHF
Frequency: 173.9 MHz; Duty Cycle: 1:1
RF Output Power: 36.93 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.73 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - High Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm

Face-Held - 2.5 cm Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 43.7 V/m; Power Drift = -1.17 dB
Peak SAR (extrapolated) = 2.18 W/kg
SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.960 mW/g



Date Tested: 11/25/04

Body-Worn SAR - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

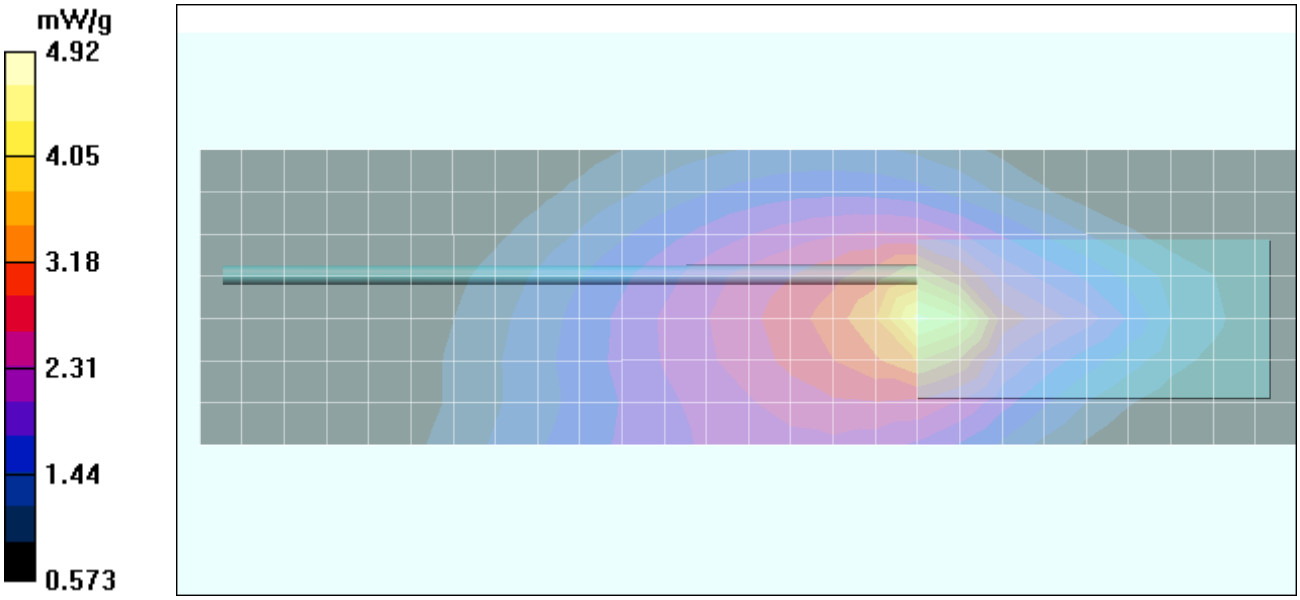
Ambient Temp: 23.5 °C; Fluid Temp: 22.5 ºC; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.10 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.81 mho/m; ε_r = 61.6; ρ = 1000 kg/m^3)

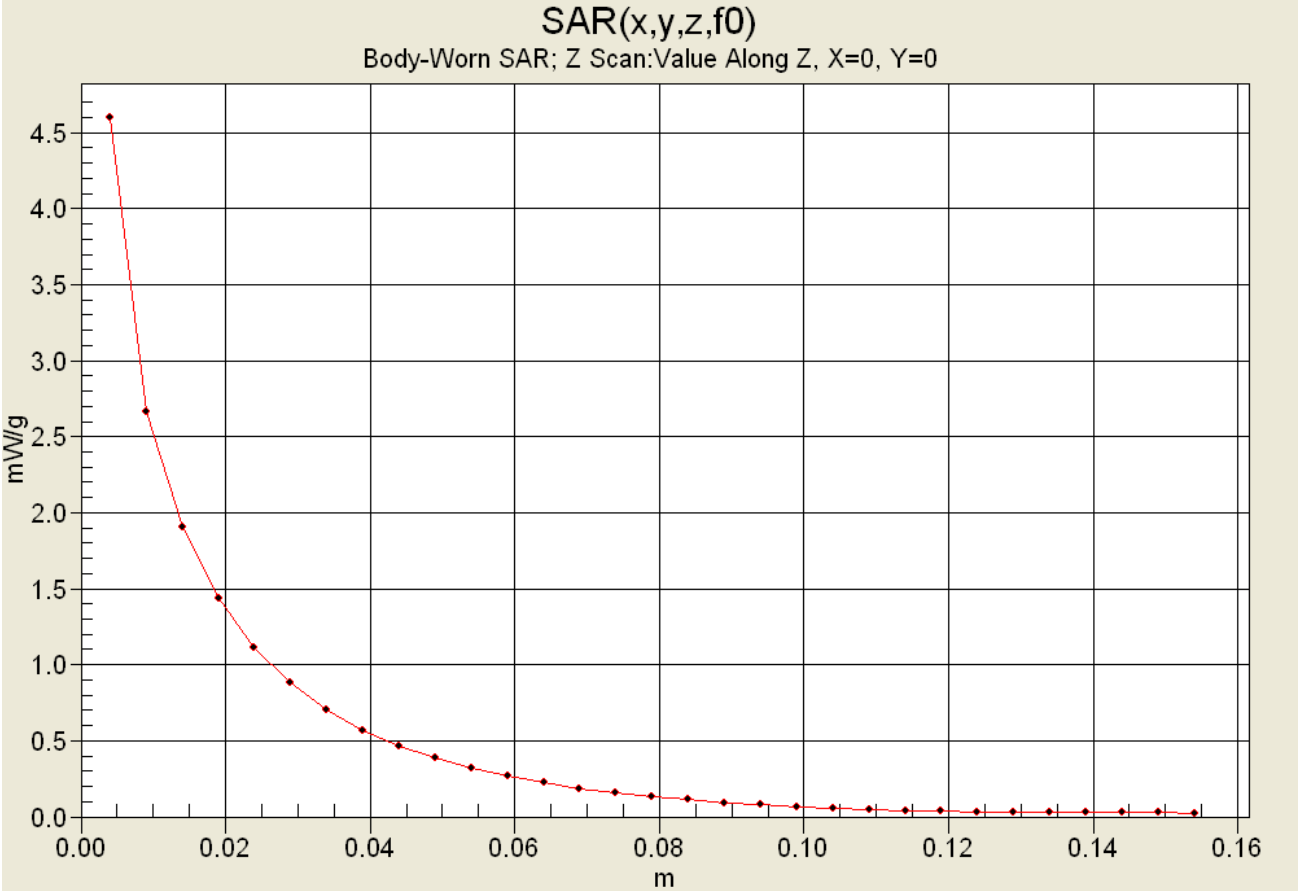
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x27x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 79.5 V/m; Power Drift = -0.813 dB
Peak SAR (extrapolated) = 12.5 W/kg
SAR(1 g) = 4.99 mW/g; SAR(10 g) = 2.99 mW/g



Z-Axis Scan



Date Tested: 11/25/04

Body-Worn SAR - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-10)

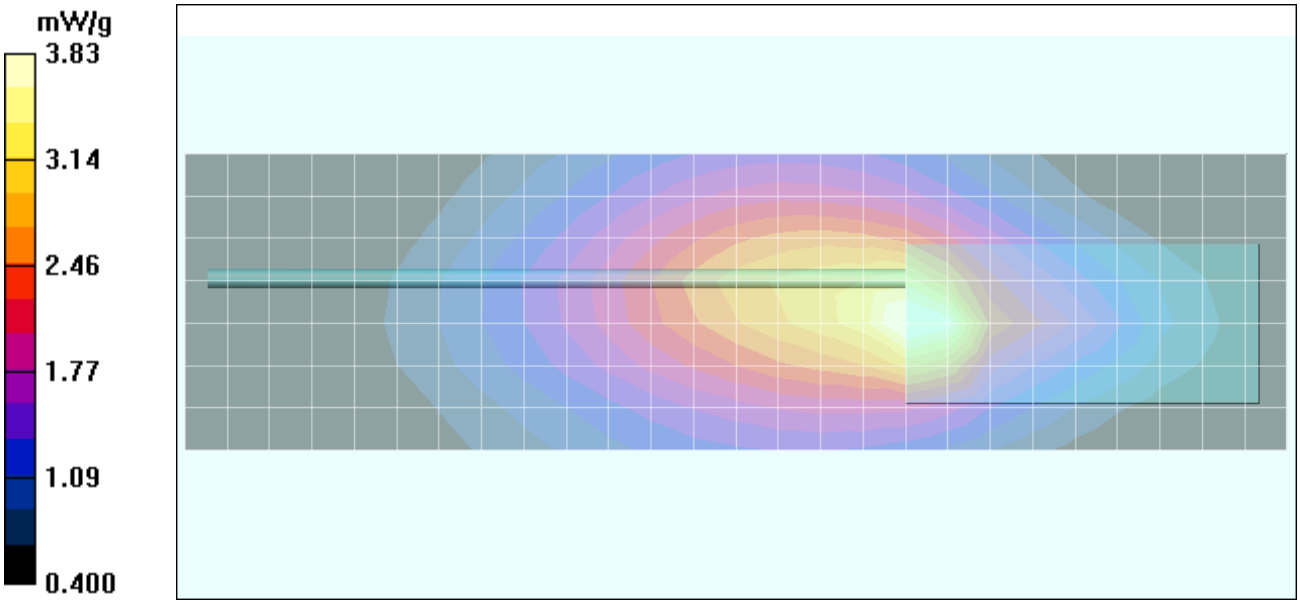
Ambient Temp: 23.5 °C; Fluid Temp: 22.5 ºC; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.18 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.81 mho/m; ε_r = 61.6; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x27x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 67.5 V/m; Power Drift = -0.767 dB
Peak SAR (extrapolated) = 8.96 W/kg
SAR(1 g) = 3.64 mW/g; SAR(10 g) = 2.15 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

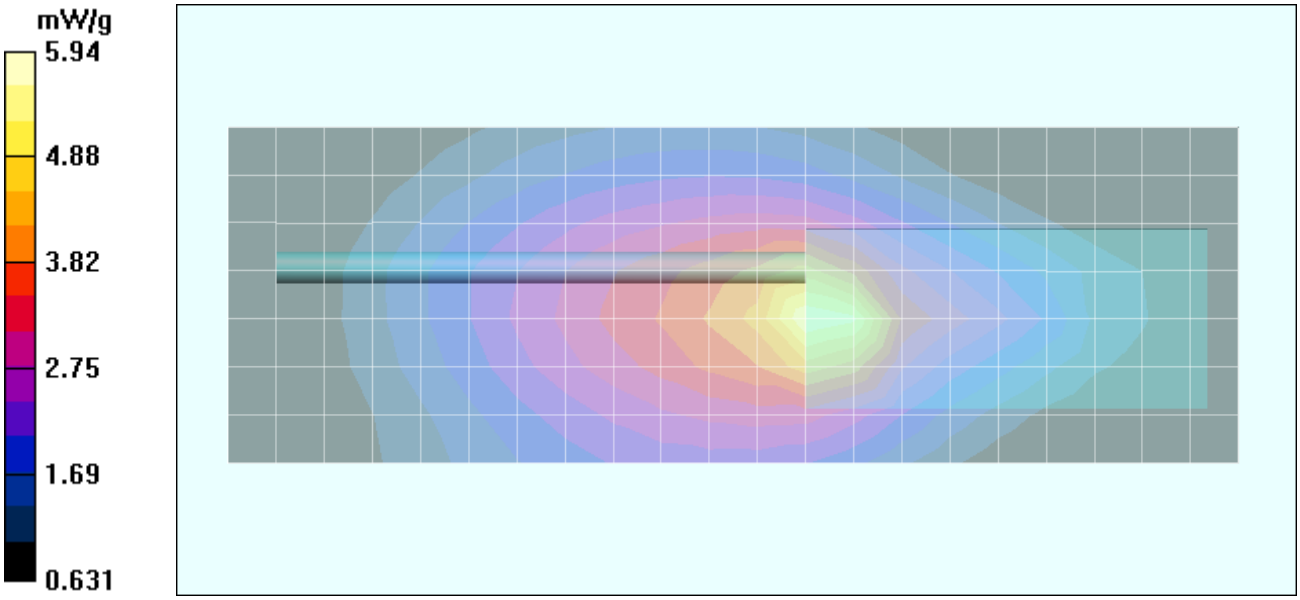
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.09 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

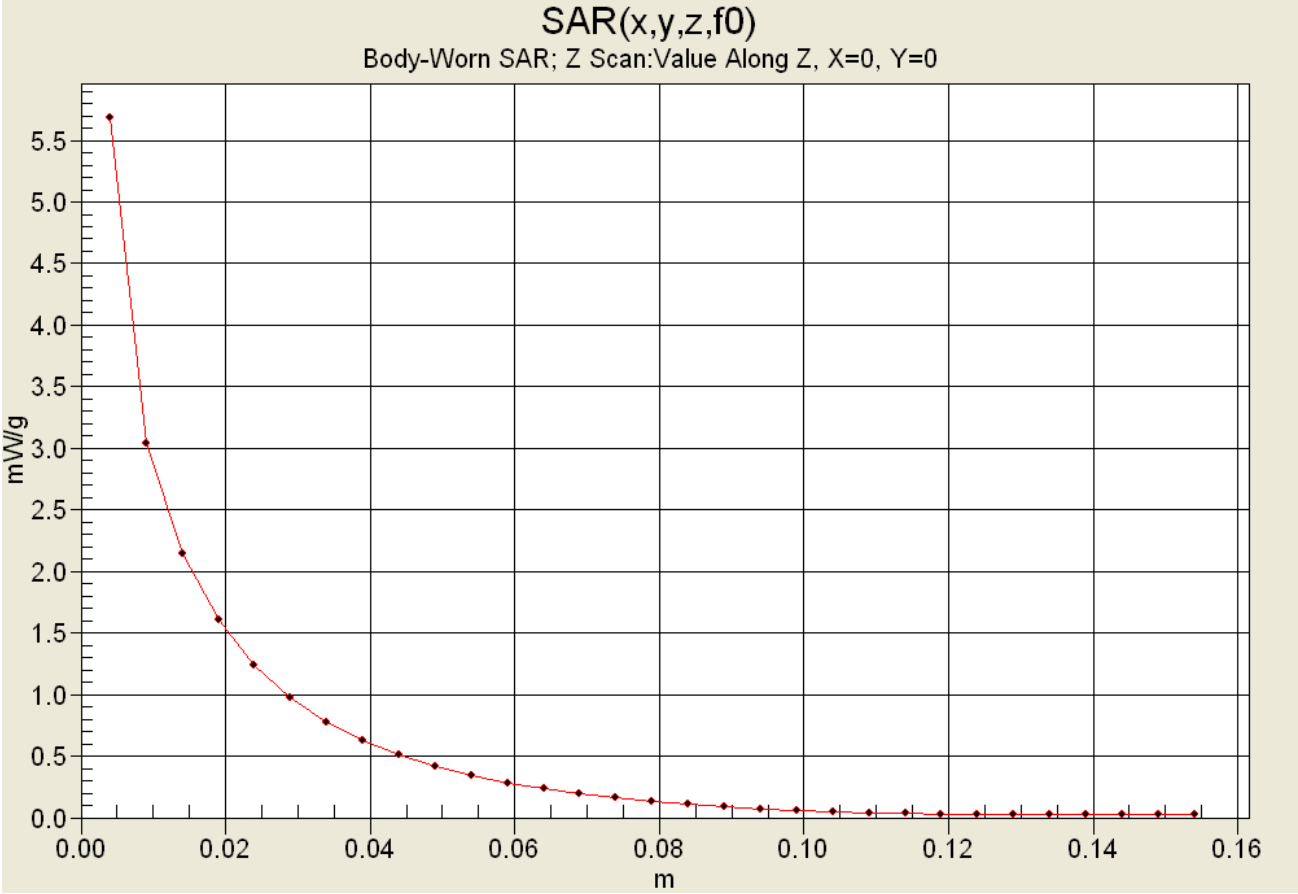
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 83.9 V/m; Power Drift = -0.734 dB
Peak SAR (extrapolated) = 13.8 W/kg
SAR(1 g) = 5.64 mW/g; SAR(10 g) = 3.37 mW/g

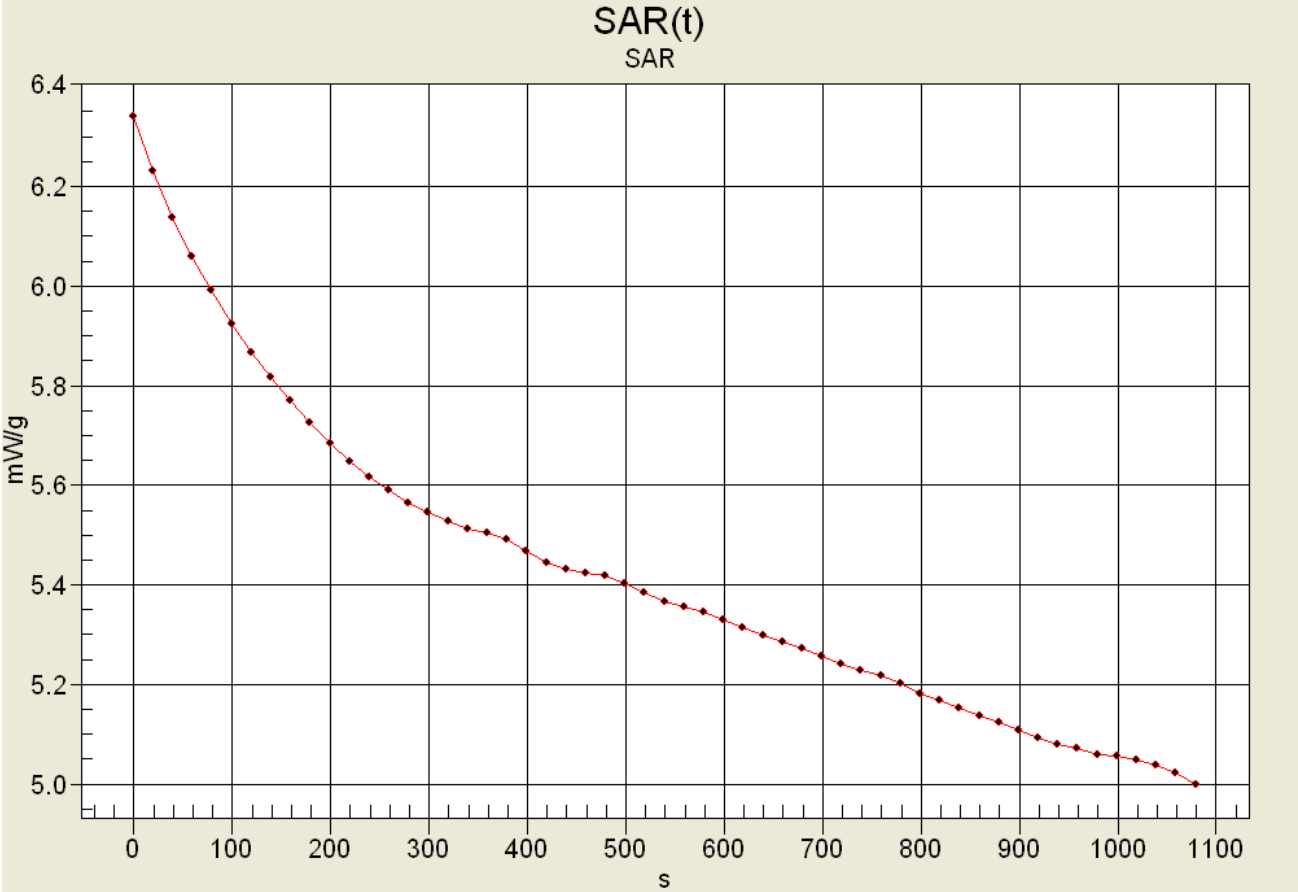


Z-Axis Scan



SAR-versus-Time Power Drift Evaluation

DUT With Belt-Clip and Speaker-Microphone
NiMH Battery Pack (P/N: KNB-29N)
Whip Antenna - KRA-26M
Mid Channel - 155.1 MHz



High SAR: 6.34018 mW/g
Low SAR: 4.99963 mW/g (-1.032 dB)
SAR after 340s: 5.51224 mW/g (-0.6077 dB)
(340s = Zoom Scan Duration)
(1080s = Area Scan Duration)

Date Tested: 11/27/04

Body-Worn SAR - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-10)

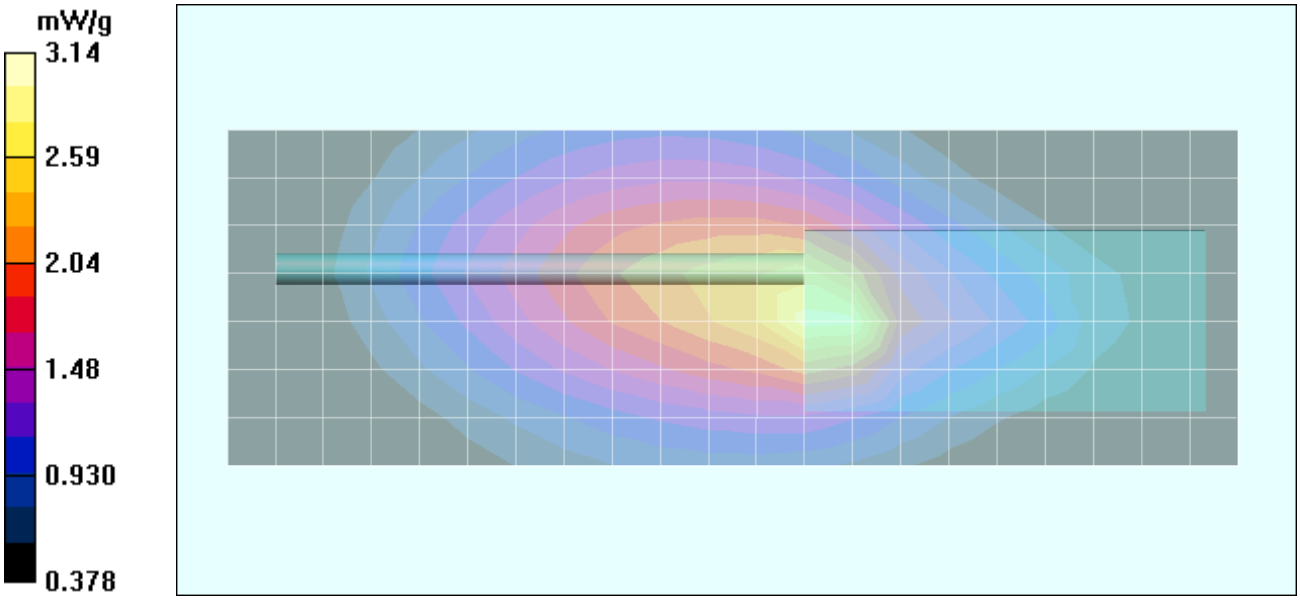
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.14 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 60.6 V/m; Power Drift = -0.478 dB
Peak SAR (extrapolated) = 6.74 W/kg
SAR(1 g) = 3.01 mW/g; SAR(10 g) = 1.88 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Whip Antenna (P/N: KRA-26M3)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

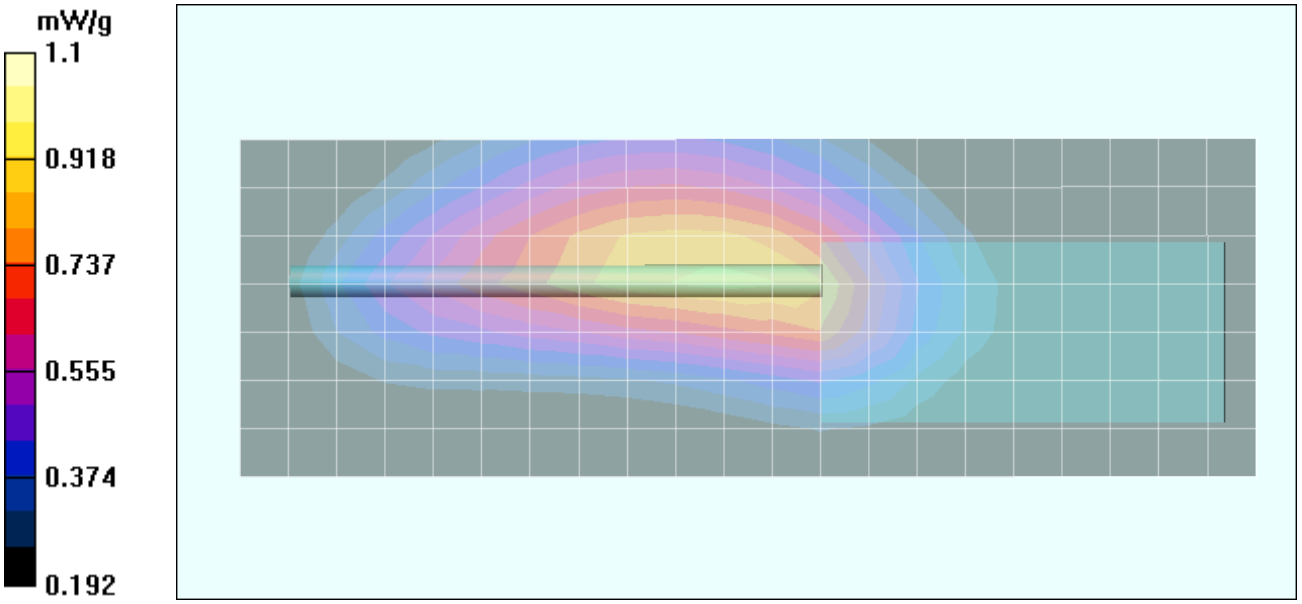
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 136.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.24 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 36.5 V/m; Power Drift = -1.15 dB
Peak SAR (extrapolated) = 1.67 W/kg
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.751 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Whip Antenna (P/N: KRA-26M2)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

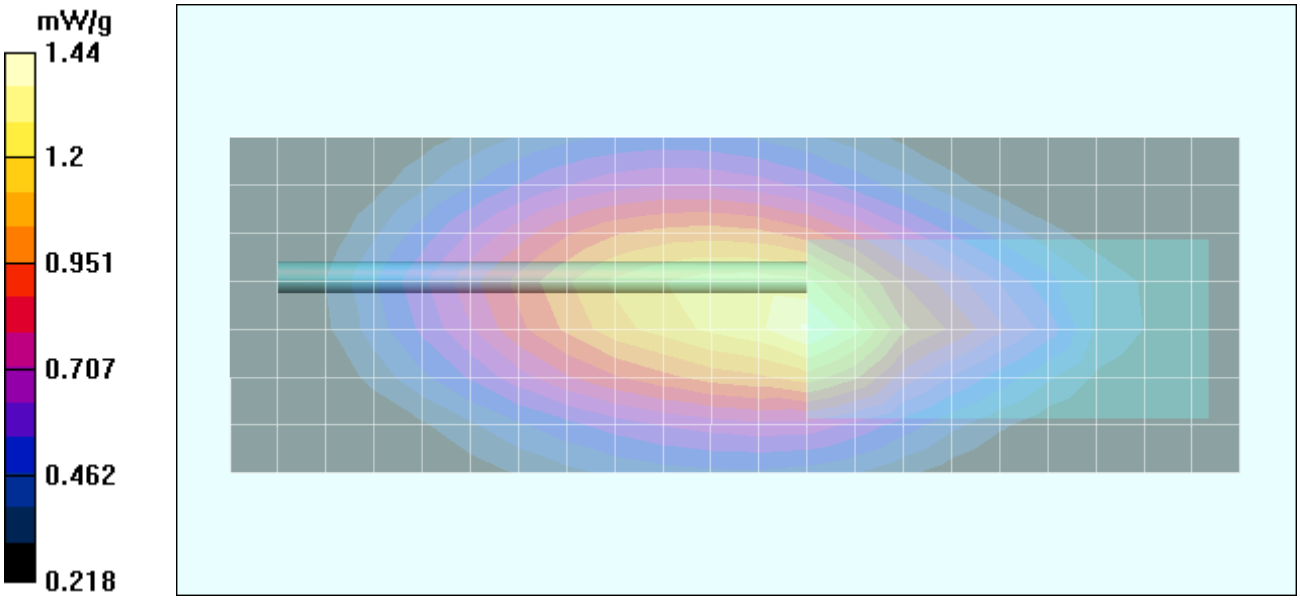
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 173.9 MHz; Duty Cycle: 1:1
RF Output Power: 36.88 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x22x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 43.2 V/m; Power Drift = -0.591 dB
Peak SAR (extrapolated) = 2.6 W/kg
SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.935 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

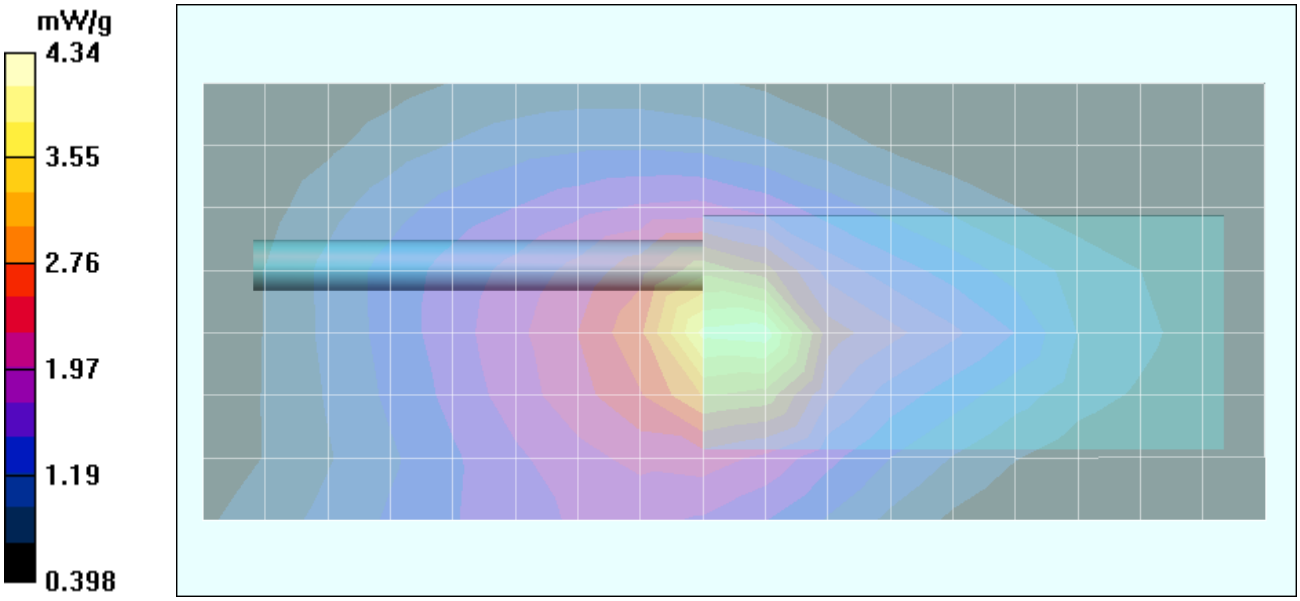
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.11 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x18x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 70 V/m; Power Drift = -0.907 dB
Peak SAR (extrapolated) = 11 W/kg
SAR(1 g) = 4.17 mW/g; SAR(10 g) = 2.38 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-10)

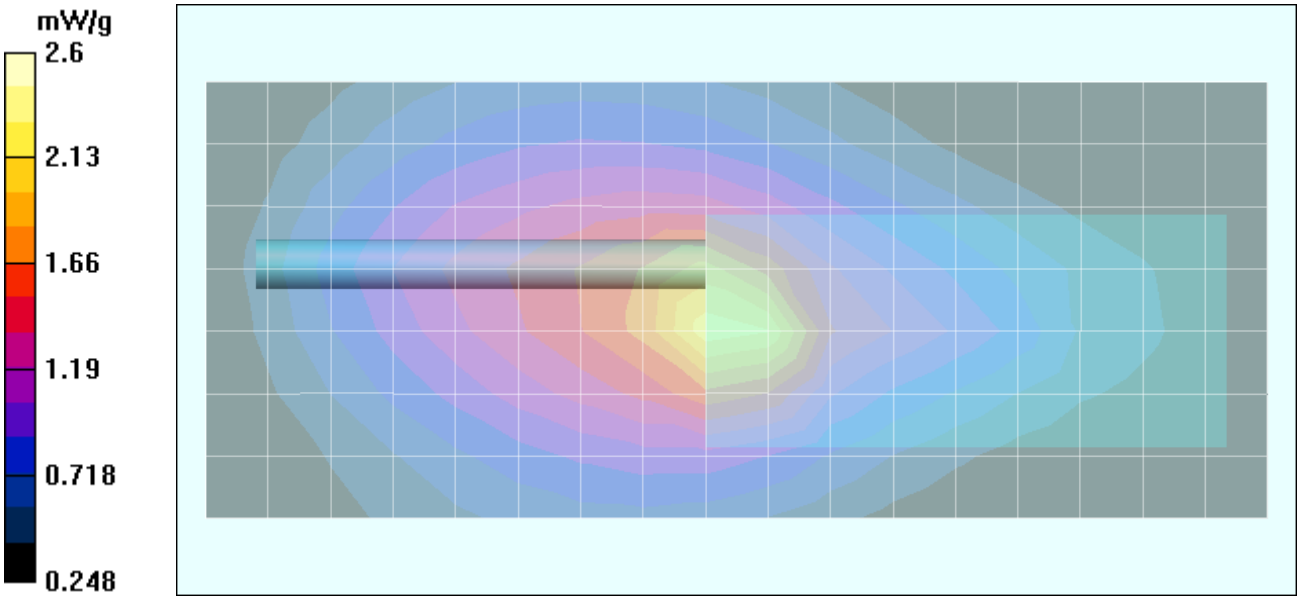
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.15 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x18x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 54 V/m; Power Drift = -0.499 dB
Peak SAR (extrapolated) = 6.08 W/kg
SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.43 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-22M3)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

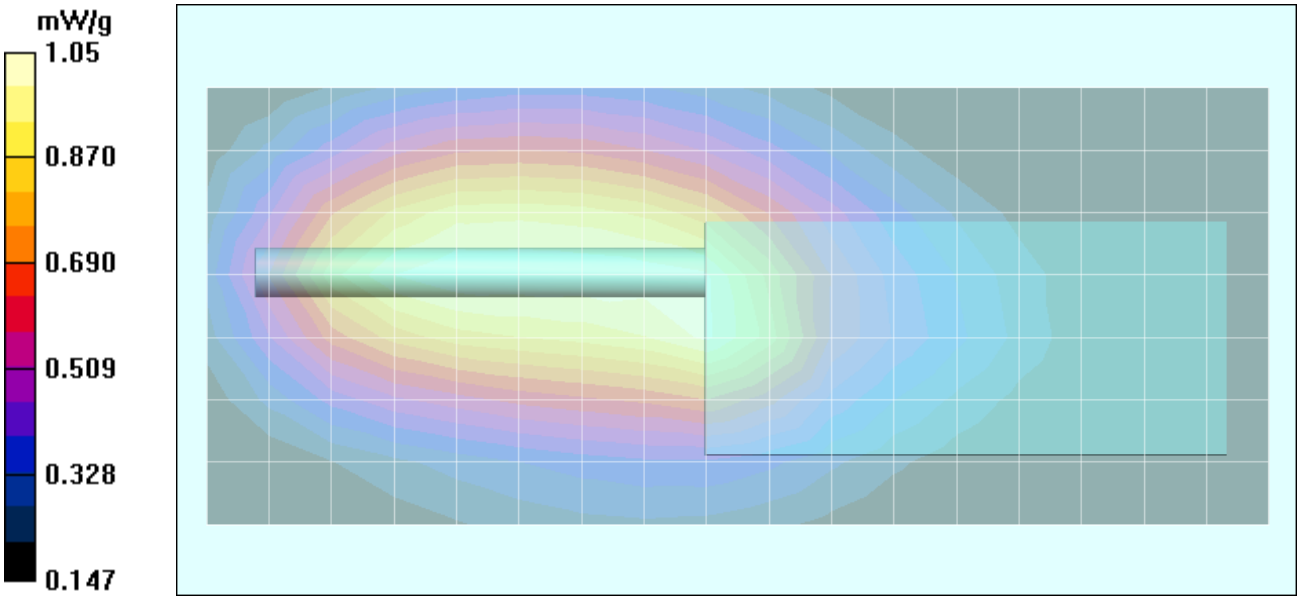
Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 136.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.20 dBm (Conducted)
RF Output Power: 37.26 dBm (Conducted) 2nd Maximum
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x18x1):
Measurement grid: dx=15mm, dy=15mm
Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 39.3 V/m; Power Drift = -1.51 dB
Peak SAR (extrapolated) = 2.2 W/kg
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.687 mW/g
Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan 2 (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 43.6 V/m; Power Drift = -1.39 dB
Peak SAR (extrapolated) = 2.31 W/kg
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.866 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-22M2)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

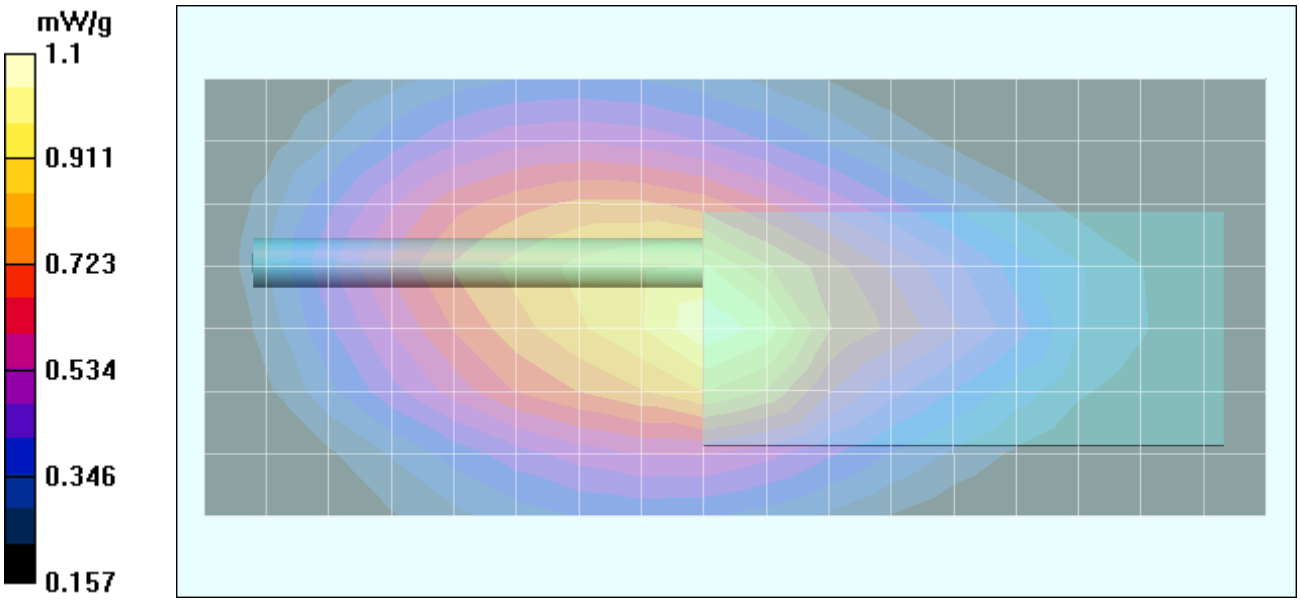
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 173.9 MHz; Duty Cycle: 1:1
RF Output Power: 36.91 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x18x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 39.1 V/m; Power Drift = -1.14 dB
Peak SAR (extrapolated) = 2.04 W/kg
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.701 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

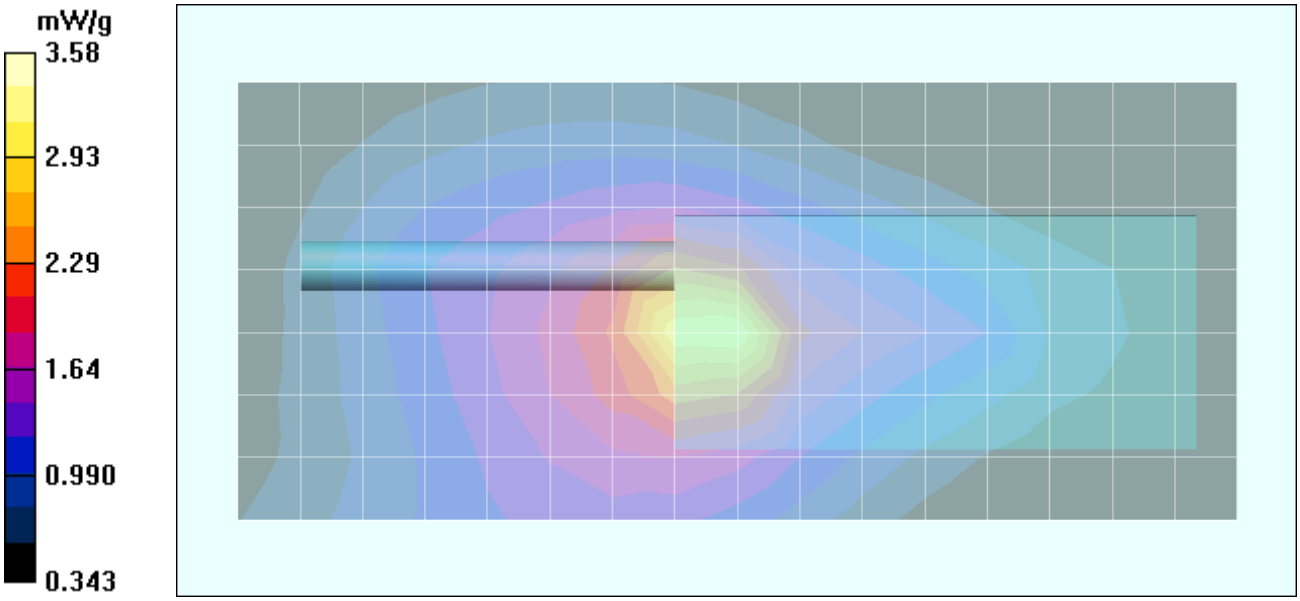
Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.10 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 62.7 V/m; Power Drift = -0.621 dB
Peak SAR (extrapolated) = 9 W/kg
SAR(1 g) = 3.43 mW/g; SAR(10 g) = 1.97 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

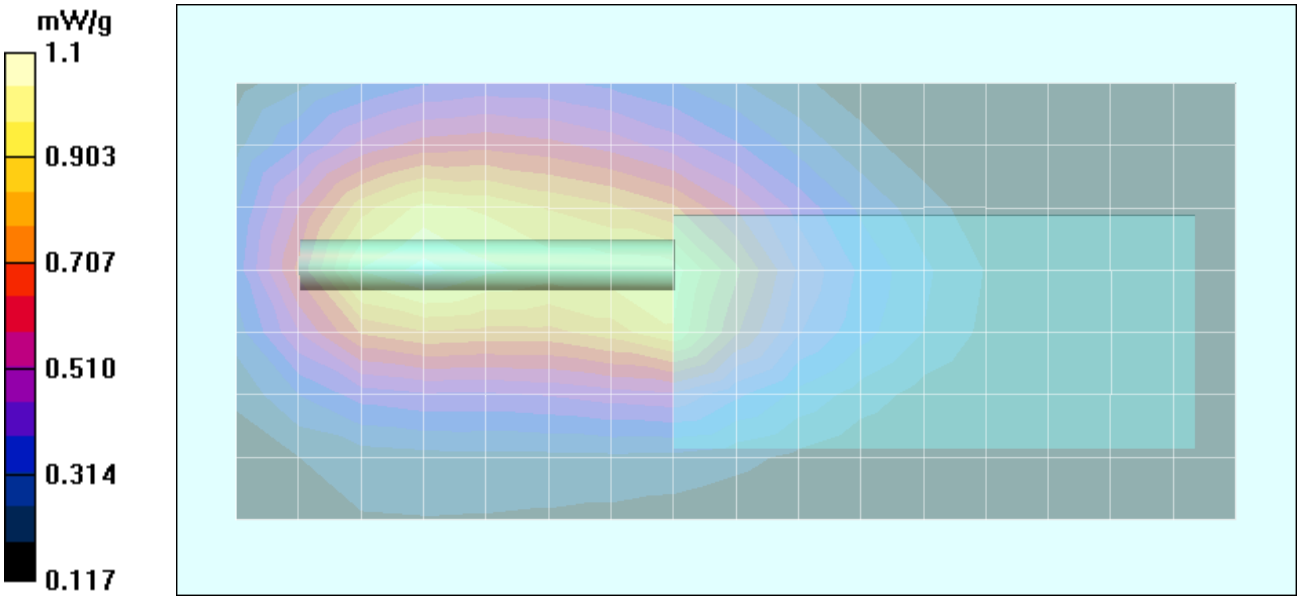
Body-Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-10)

Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 155.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.16 dBm (Conducted)
RF Output Power: 37.12 dBm (Conducted) 2nd Maximum
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm
Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 35.1 V/m; Power Drift = -0.725 dB
Peak SAR (extrapolated) = 2.38 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.696 mW/g
Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan 2 (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 37.7 V/m; Power Drift = -0.813 dB
Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.717 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-16M3)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

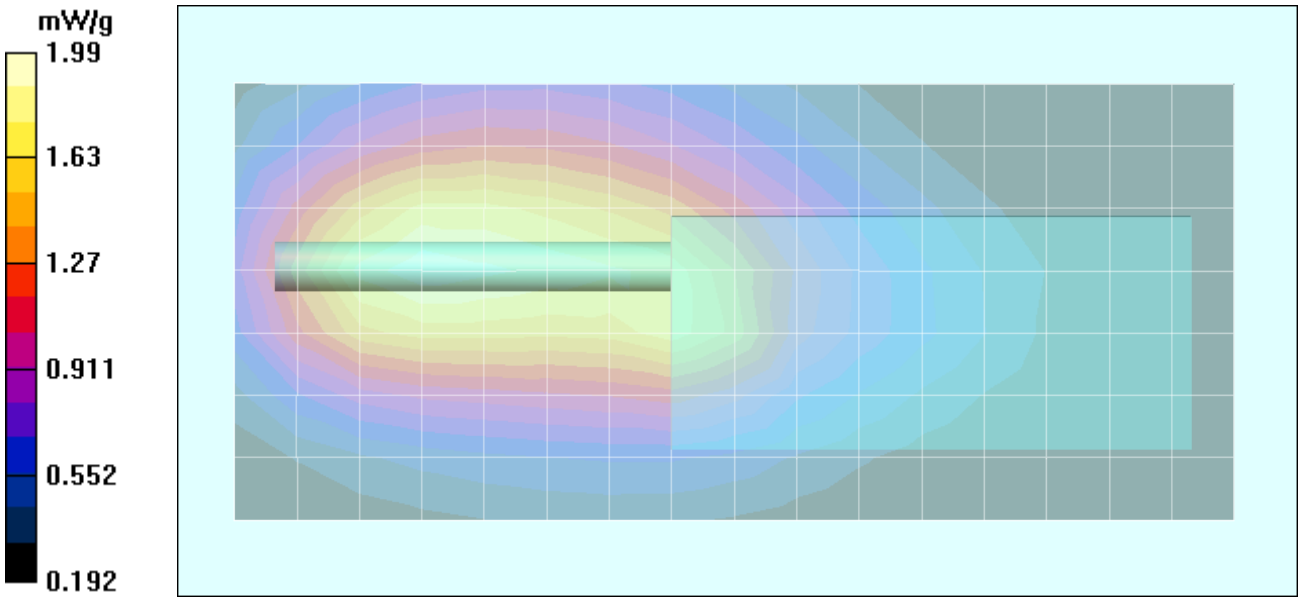
Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 136.1 MHz; Duty Cycle: 1:1
RF Output Power: 37.25 dBm (Conducted)
RF Output Power: 37.24 dBm (Conducted) 2nd Maximum
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm
Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 42.4 V/m; Power Drift = 0.754 dB
Peak SAR (extrapolated) = 3.92 W/kg
SAR(1 g) = 1.96 mW/g; SAR(10 g) = 1.31 mW/g
Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan 2 (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 40.6 V/m; Power Drift = 1.06 dB
Peak SAR (extrapolated) = 3.34 W/kg
SAR(1 g) = 1.73 mW/g; SAR(10 g) = 1.2 mW/g



Date Tested: 11/27/04

Body-Worn SAR - Stubby Antenna (P/N: KRA-16M2)

DUT: Kenwood Model: TK-2212-1; Type: Portable FM VHF PTT Radio Transceiver; Serial: 00000002

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-10)

Ambient Temp: 23.5 °C; Fluid Temp: 22.1 ºC; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
Frequency: 173.9 MHz; Duty Cycle: 1:1
RF Output Power: 36.99 dBm (Conducted)
7.5V 1500mAh NiMH Battery Pack (P/N: KNB-29N)
Medium: M150 (σ = 0.79 mho/m; ε_r = 61.4; ρ = 1000 kg/m^3)

- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x17x1):
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 42.5 V/m; Power Drift = -1.27 dB
Peak SAR (extrapolated) = 2.31 W/kg
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.792 mW/g