

Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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Date Tested: 10/27/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.24 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: HSL150 ($\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 54.0$; $\rho = 1000 \text{ kg/m}^3$)

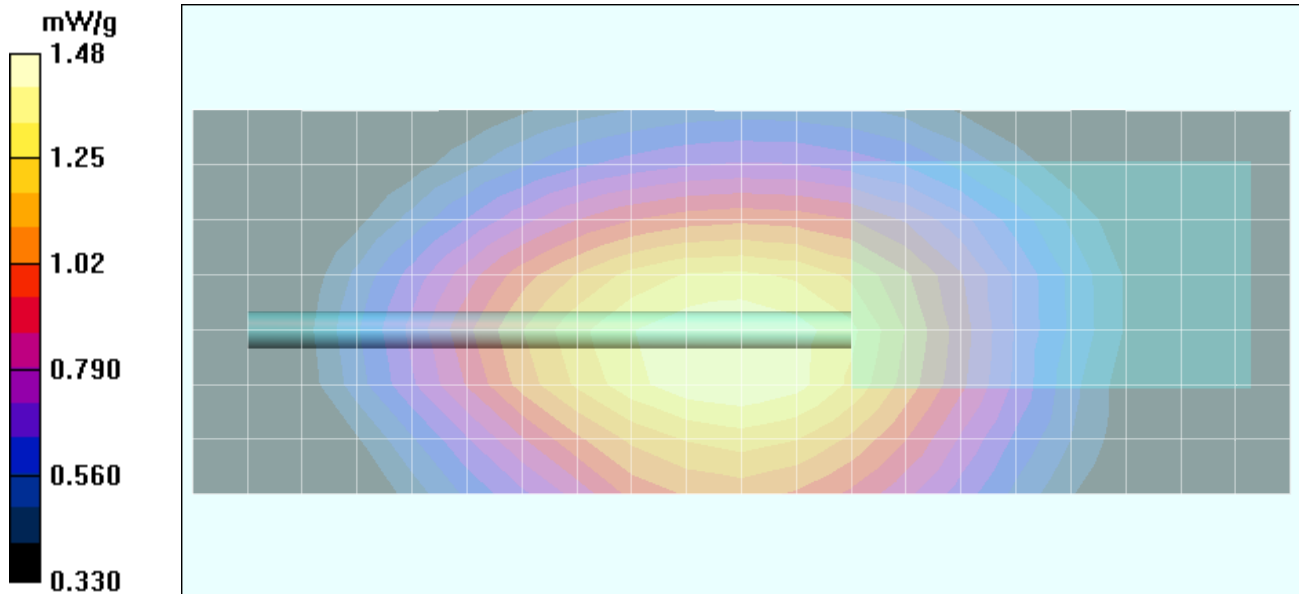
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x21x1):

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 = 43.8 V/m; Power Drift = -0.931 dB
 Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 1.43 mW/g; SAR(10 g) = 1.08 mW/g



Date Tested: 10/27/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.34 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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 (8x21x1):

Measurement grid: dx=15mm, dy=15mm

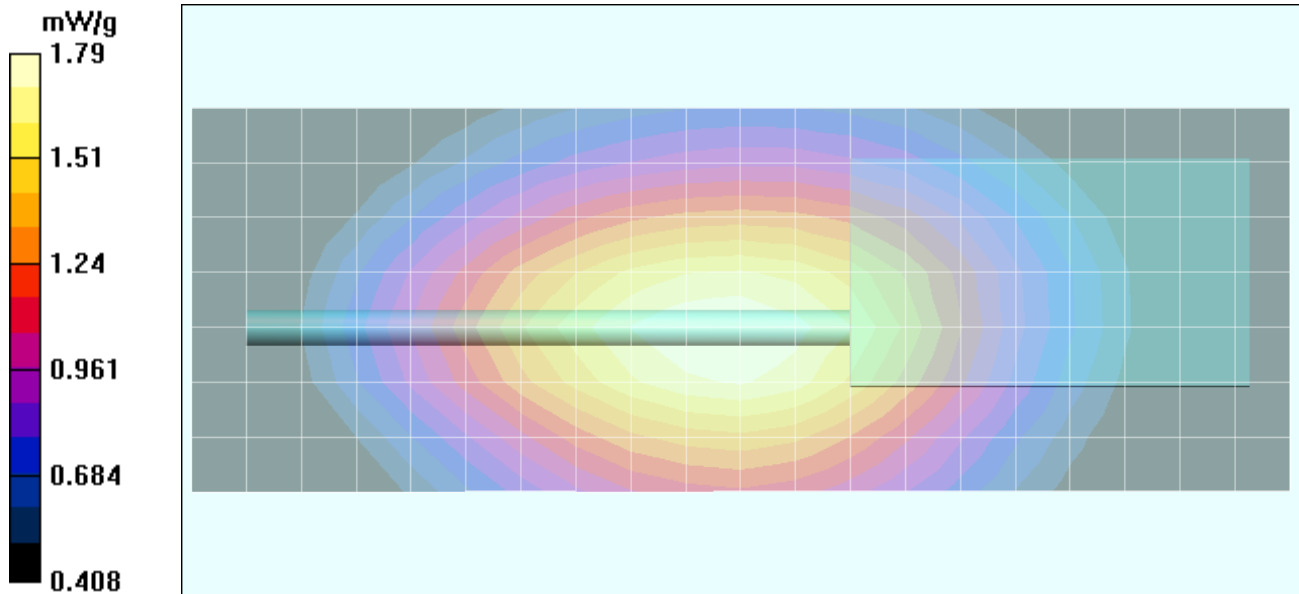
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.2 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 2.73 W/kg

SAR(1 g) = 1.74 mW/g; SAR(10 g) = 1.29 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/27/04

Face-Held SAR - Li-ion Battery (P/N: KNB-24L) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.26 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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 (8x21x1):

Measurement grid: dx=15mm, dy=15mm

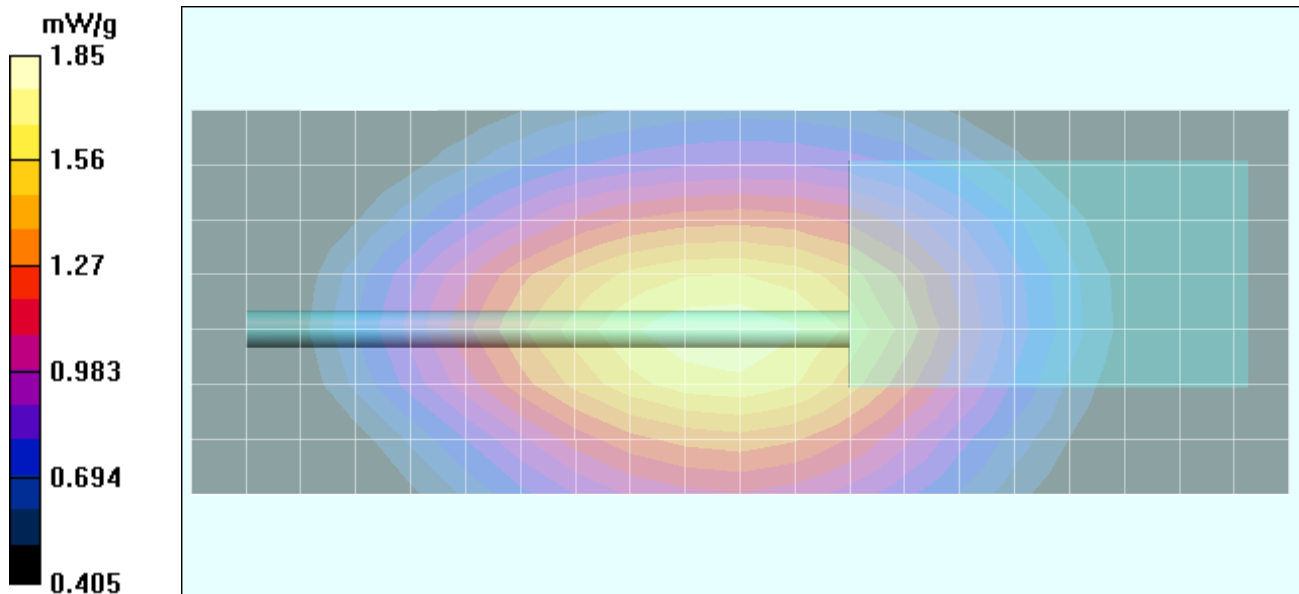
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.3 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 1.79 mW/g; SAR(10 g) = 1.33 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/27/04

Face-Held SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.29 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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 (8x21x1):

Measurement grid: dx=15mm, dy=15mm

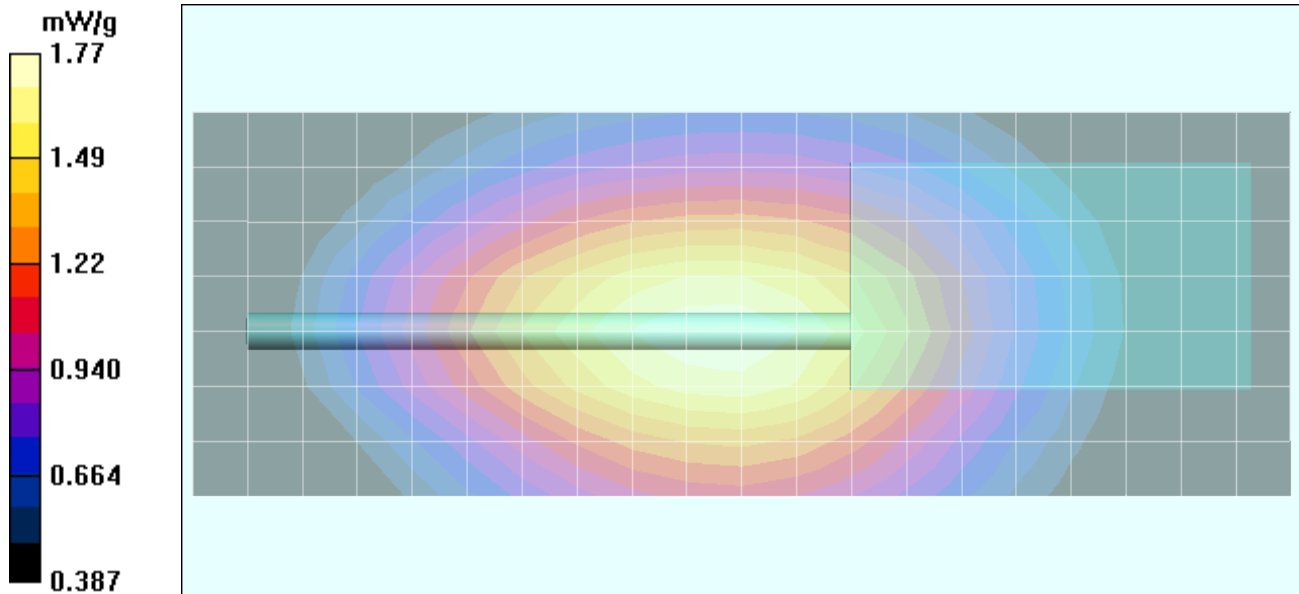
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 44.1 V/m; Power Drift = -0.241 dB

Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 1.73 mW/g; SAR(10 g) = 1.29 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/27/04

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

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.36 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL150 ($\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 54.0$; $\rho = 1000 \text{ kg/m}^3$)

- 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 (8x21x1):

Measurement grid: dx=15mm, dy=15mm

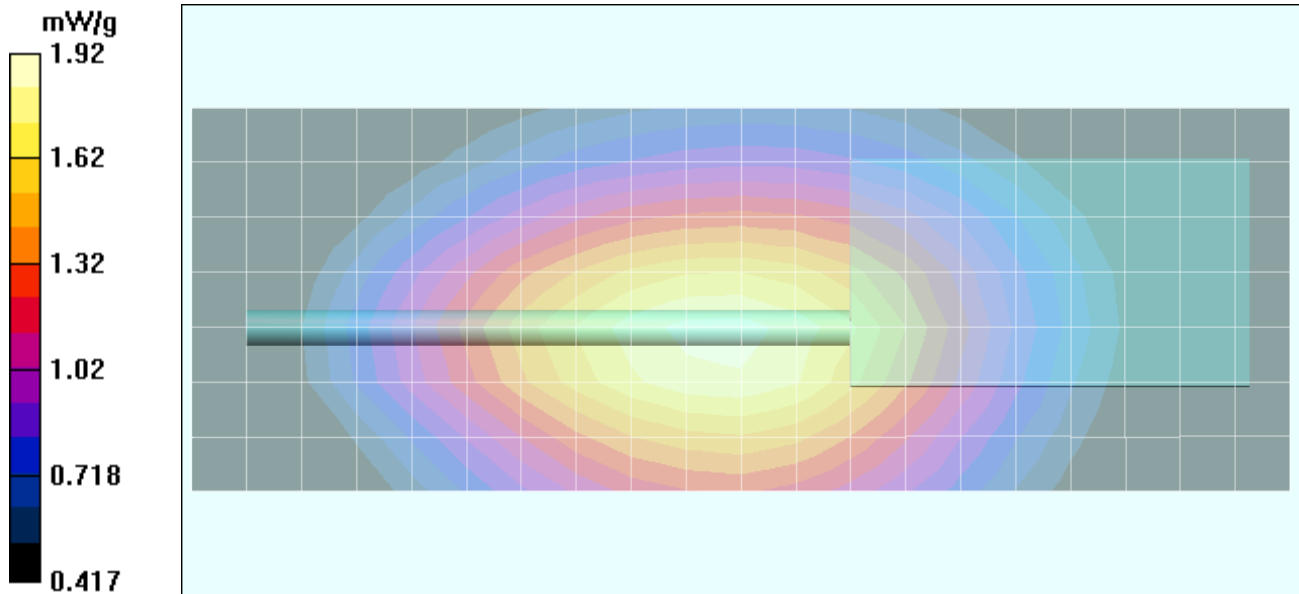
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.9 V/m; Power Drift = -0.376 dB

Peak SAR (extrapolated) = 2.9 W/kg

SAR(1 g) = 1.86 mW/g; SAR(10 g) = 1.38 mW/g



Date Tested: 10/27/04

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

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 136.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.39 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL150 ($\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 54.0$; $\rho = 1000 \text{ kg/m}^3$)

- 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 (8x21x1):

Measurement grid: dx=15mm, dy=15mm

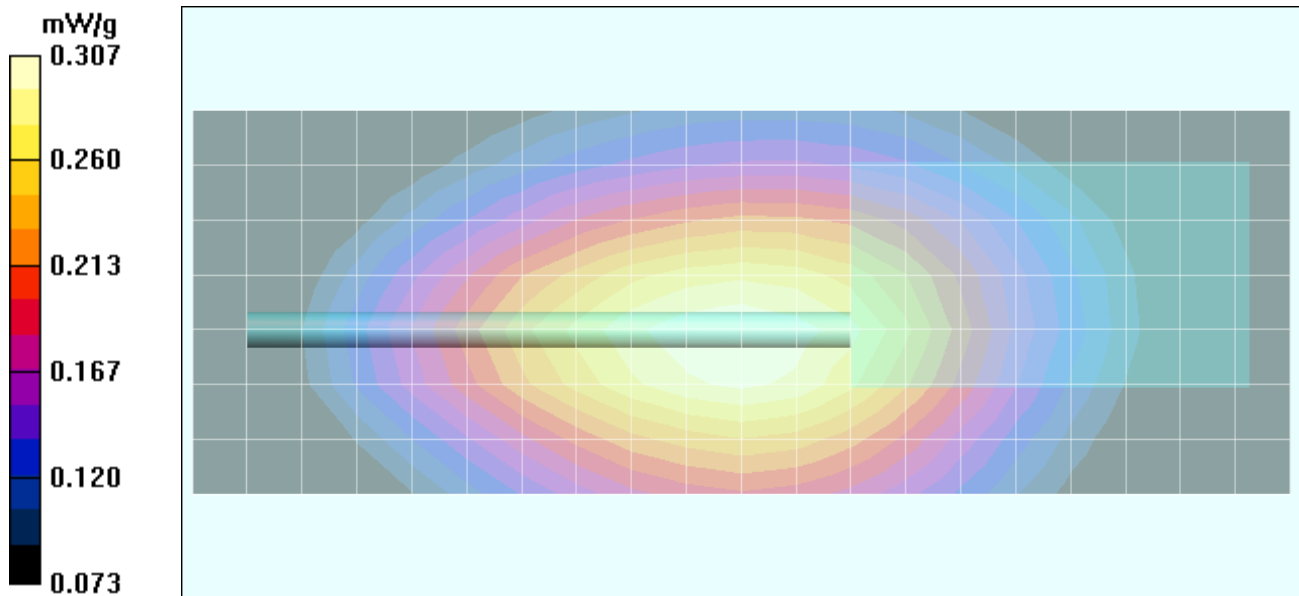
Face-Held - 2.5 cm Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.5 V/m; Power Drift = -0.0547 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.224 mW/g



Date Tested: 10/27/04

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

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 173.95 MHz; Duty Cycle: 1:1

RF Output Power: 37.37 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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 (8x21x1):

Measurement grid: dx=15mm, dy=15mm

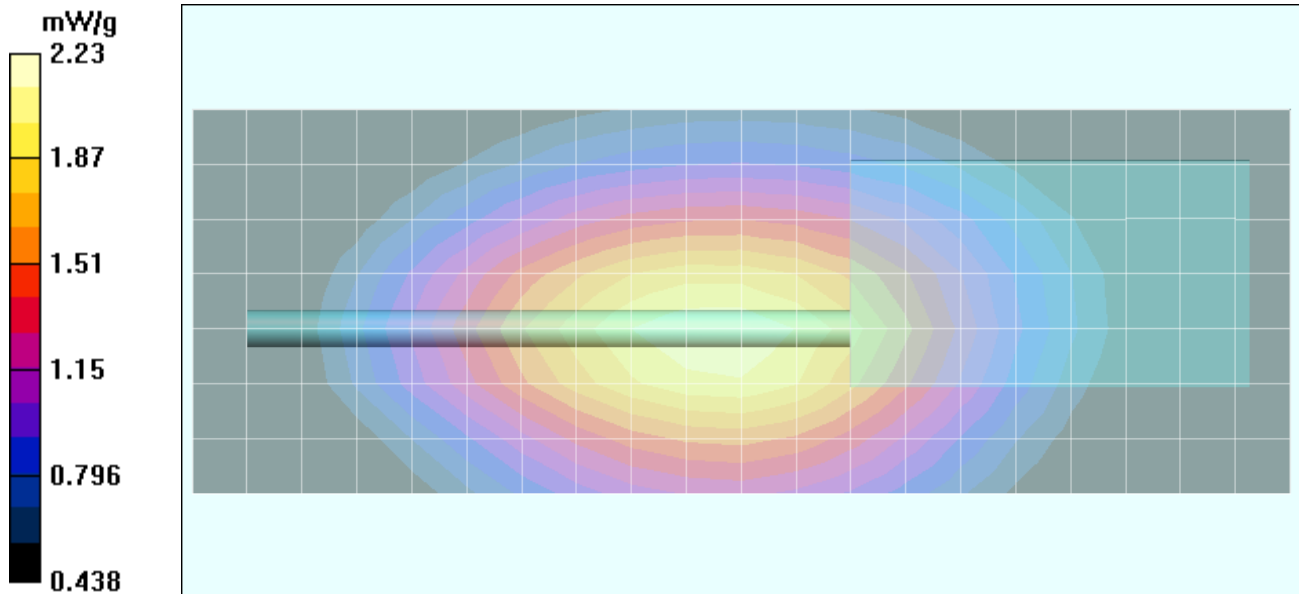
Face-Held - 2.5 cm Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

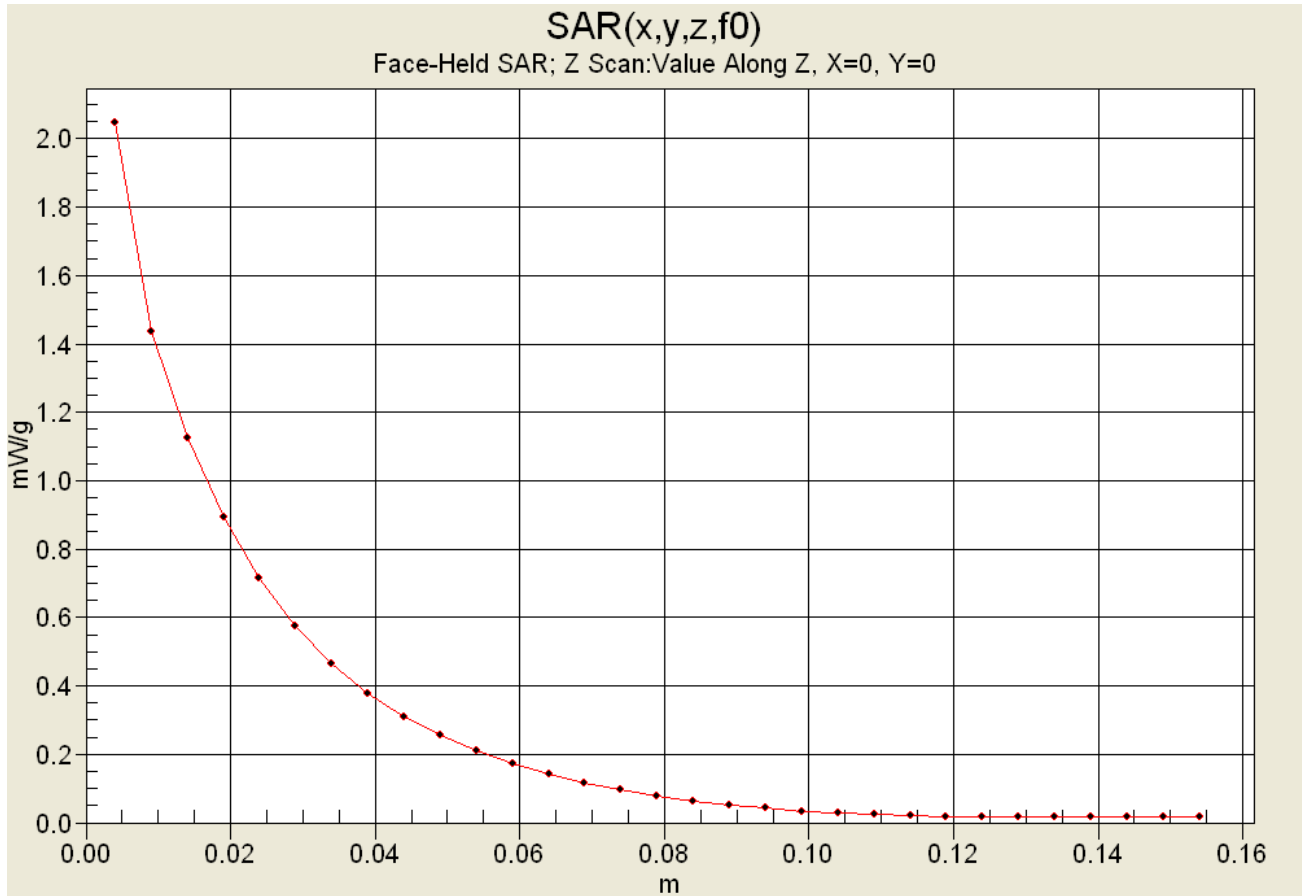
Reference Value = 51.7 V/m; Power Drift = -0.969 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.17 mW/g; SAR(10 g) = 1.6 mW/g



Z-Axis Scan



Date Tested: 10/27/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.17 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: HSL150 ($\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 54.0$; $\rho = 1000 \text{ kg/m}^3$)

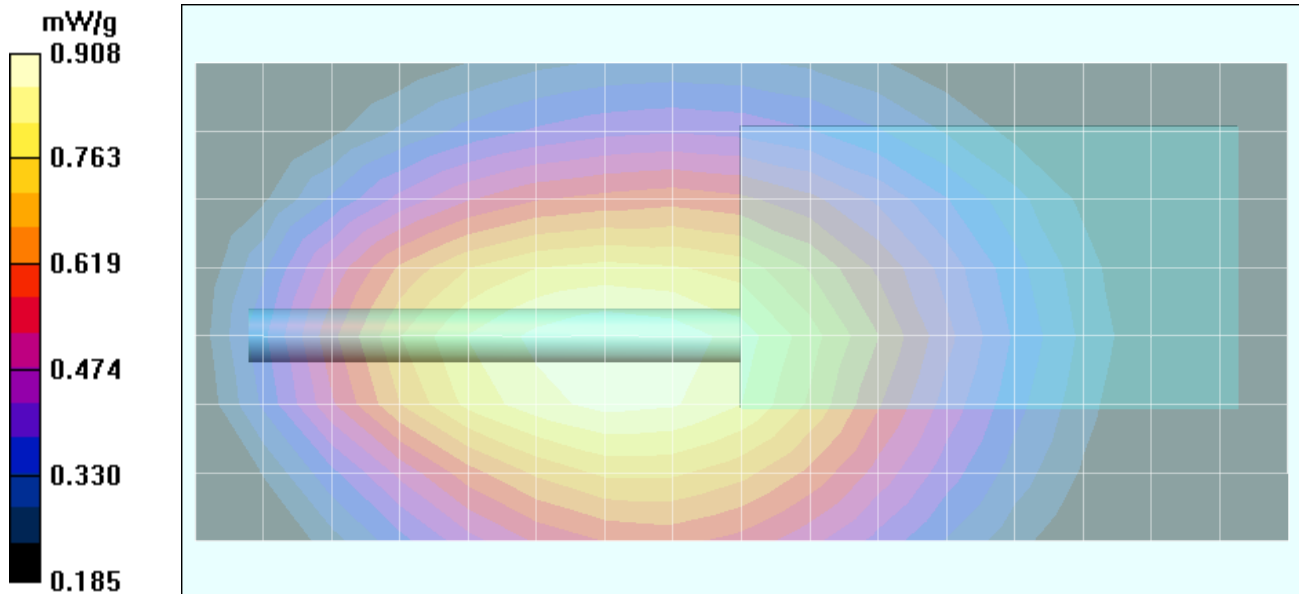
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

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 = 33.5 V/m; Power Drift = -0.747 dB
 Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.648 mW/g



Date Tested: 10/27/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.27 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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

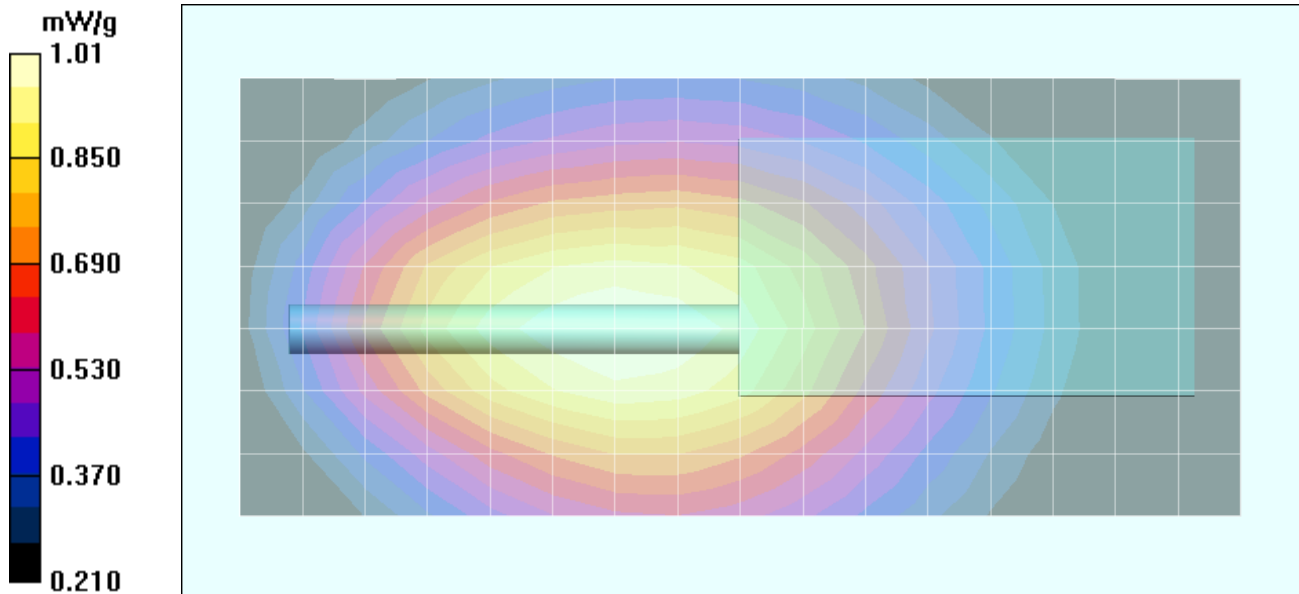
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.3 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.975 mW/g; SAR(10 g) = 0.717 mW/g



Date Tested: 10/27/04

Face-Held SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.23 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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

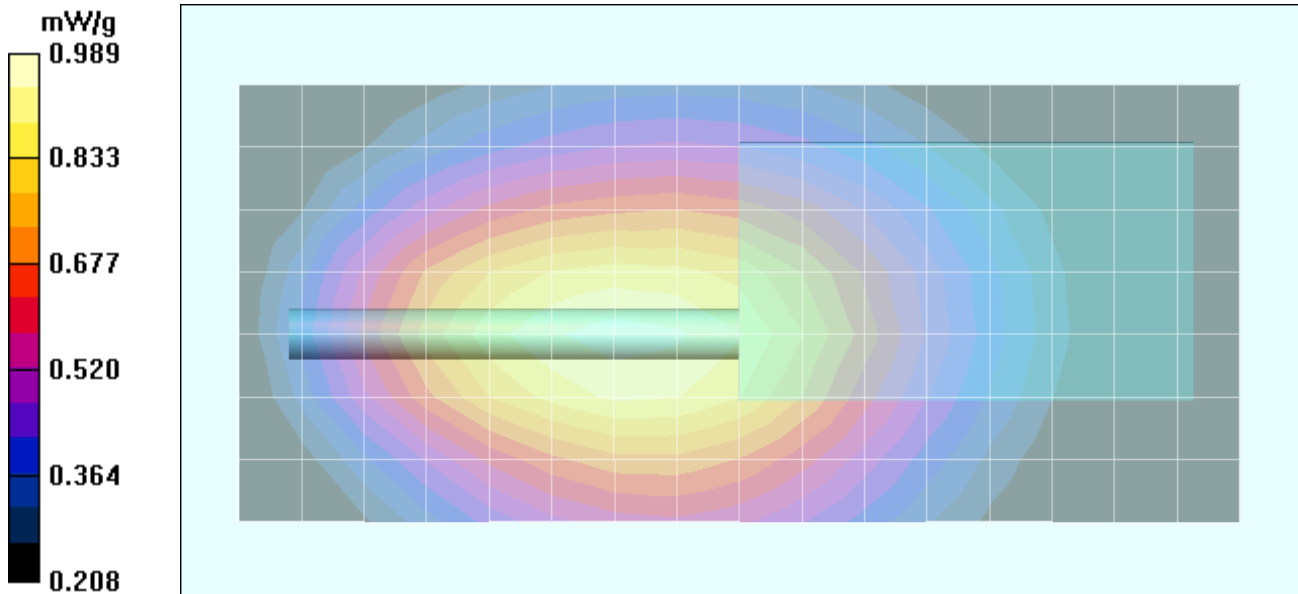
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.4 V/m; Power Drift = -0.0503 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.704 mW/g



Date Tested: 10/27/04

Face-Held SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.33 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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

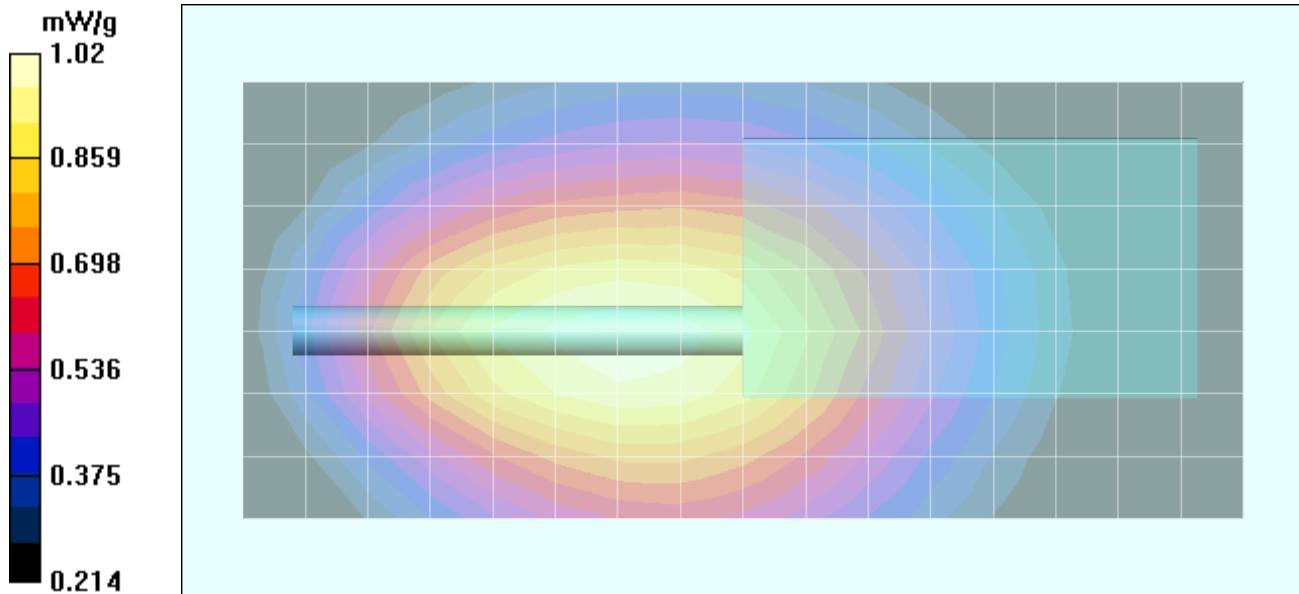
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 34.2 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.989 mW/g; SAR(10 g) = 0.729 mW/g



Date Tested: 10/27/04

Face-Held SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.32 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

- 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

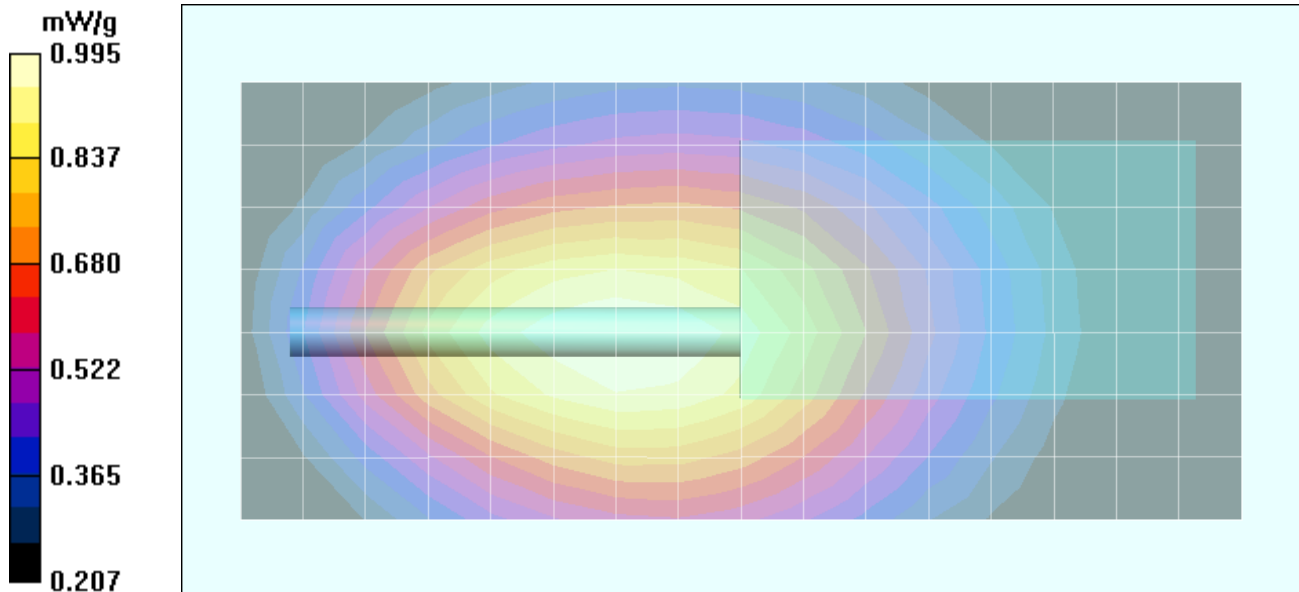
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.6 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.714 mW/g



Date Tested: 10/27/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-22M3)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 136.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.29 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: HSL150 ($\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 54.0$; $\rho = 1000 \text{ kg/m}^3$)

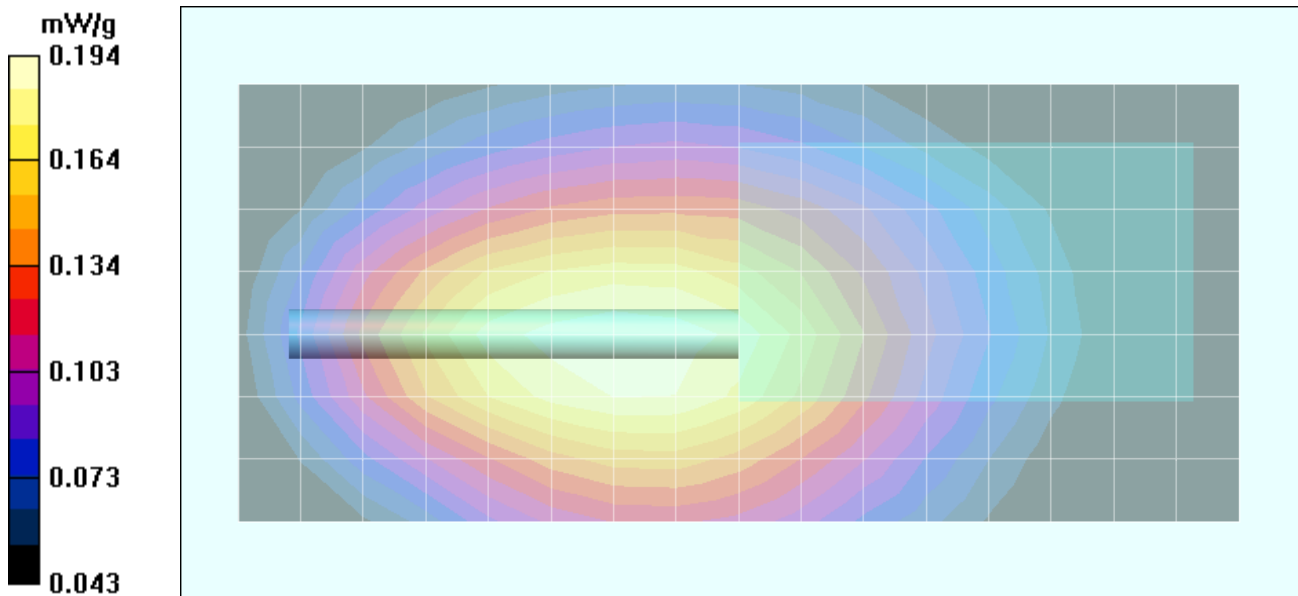
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

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 = 15.5 V/m; Power Drift = -0.561 dB
 Peak SAR (extrapolated) = 0.298 W/kg
SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.140 mW/g



Date Tested: 10/27/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-22M2)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 22.9 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 102.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 173.95 MHz; Duty Cycle: 1:1
 RF Output Power: 37.15 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: HSL150 ($\sigma = 0.75$ mho/m; $\epsilon_r = 54.0$; $\rho = 1000$ kg/m³)

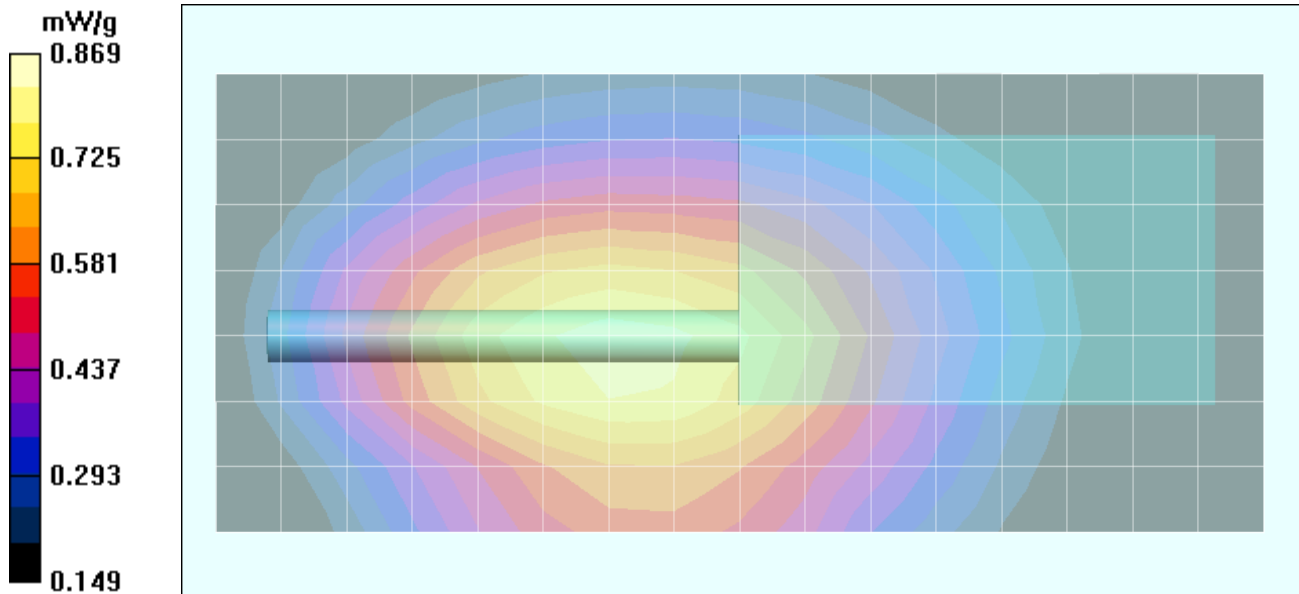
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

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 = 35.5 V/m; Power Drift = -2.17 dB
 Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.555 mW/g



Date Tested: 10/28/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.21 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

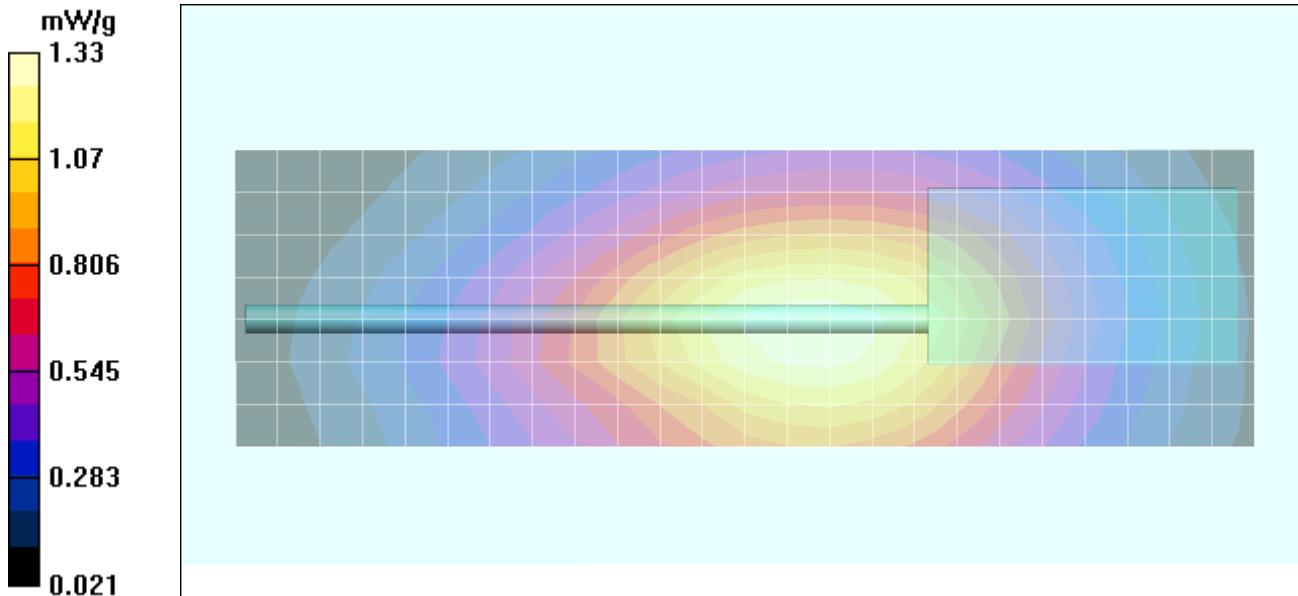
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x25x1):

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 = 40.5 V/m; Power Drift = -1.15 dB
 Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.905 mW/g



Date Tested: 10/28/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.36 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

- 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 (8x25x1):

Measurement grid: dx=15mm, dy=15mm

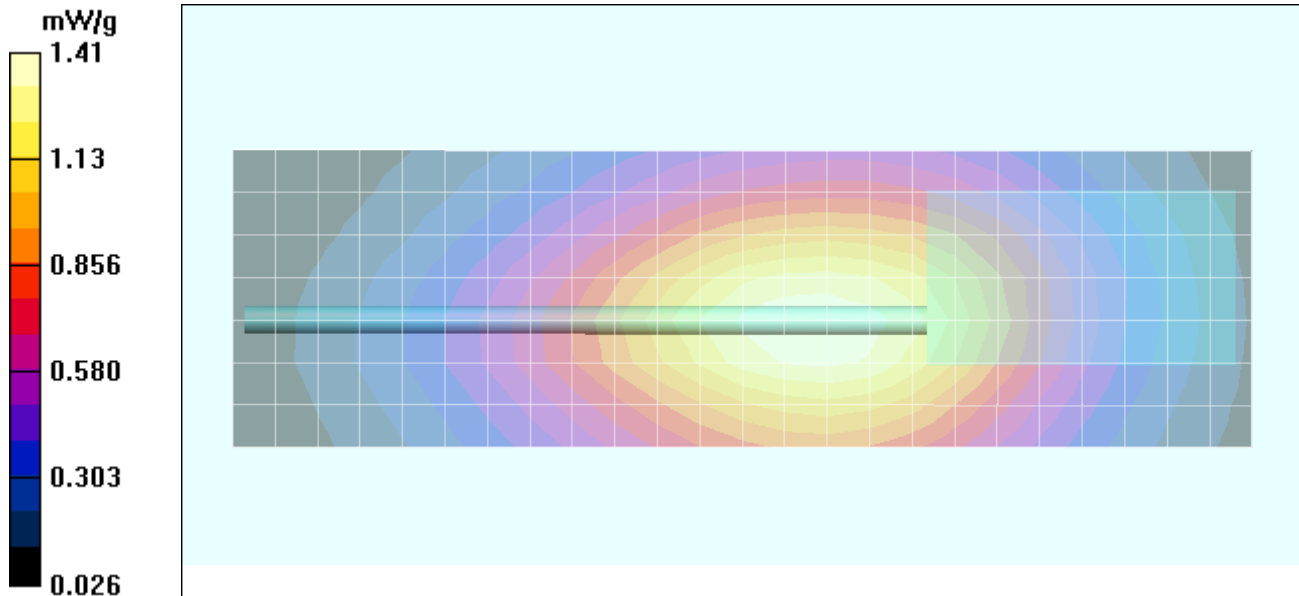
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 40.1 V/m; Power Drift = -0.0933 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 1.38 mW/g; SAR(10 g) = 1.02 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/28/04

Face-Held SAR - Li-ion Battery (P/N: KNB-24L) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.25 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: HSL150 ($\sigma = 0.73$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³)

- 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 (8x25x1):

Measurement grid: dx=15mm, dy=15mm

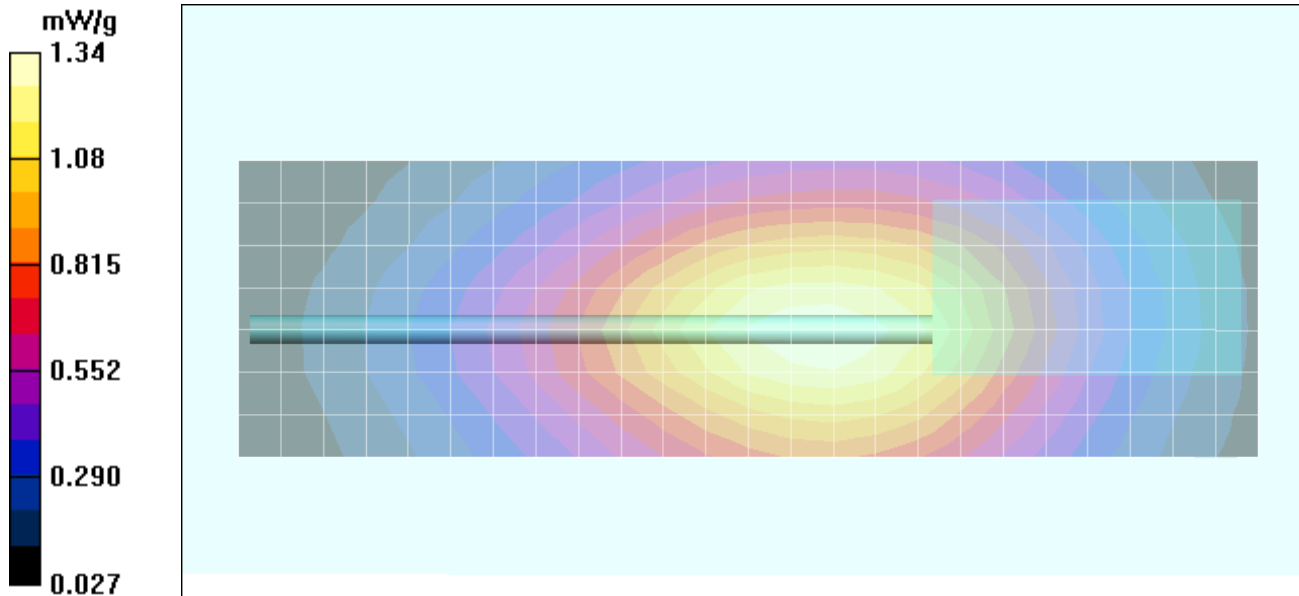
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.4 V/m; Power Drift = -0.437 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.976 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/28/04

Face-Held SAR - NiCd Battery (P/N: KNB-25A) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.35 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: HSL150 ($\sigma = 0.73$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³)

- 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 (8x25x1):

Measurement grid: dx=15mm, dy=15mm

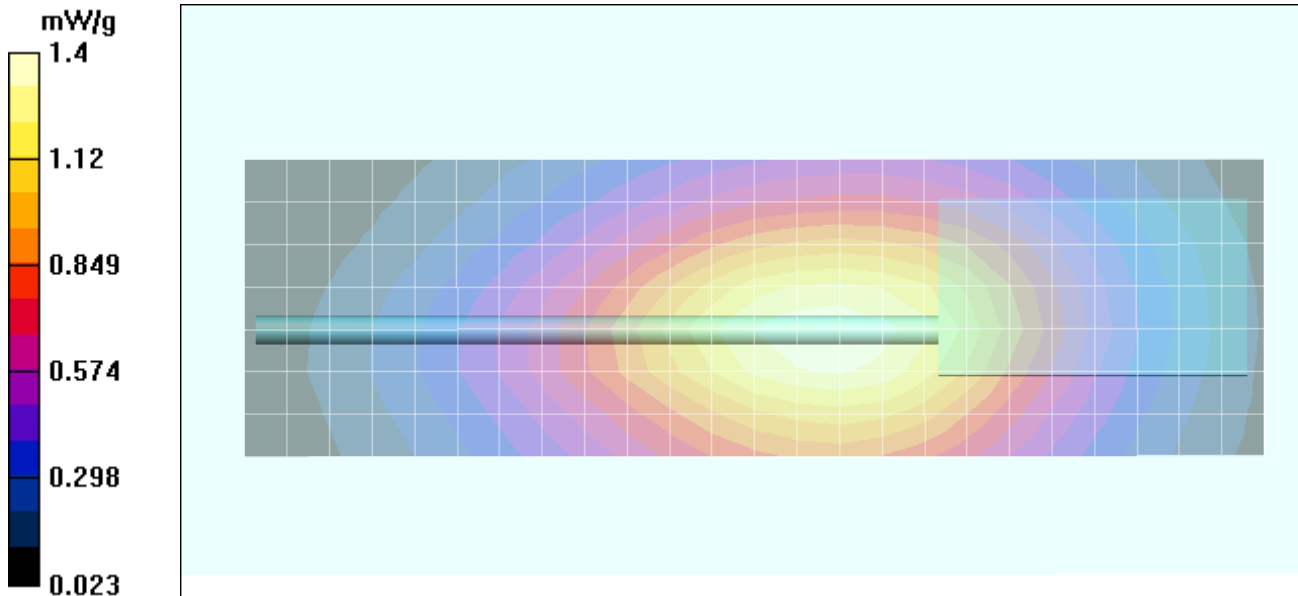
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.3 V/m; Power Drift = -0.387 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.958 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/28/04

Face-Held SAR - NiMH Battery (P/N: KNB-26N) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.34 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL150 ($\sigma = 0.73$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³)

- 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 (8x25x1):

Measurement grid: dx=15mm, dy=15mm

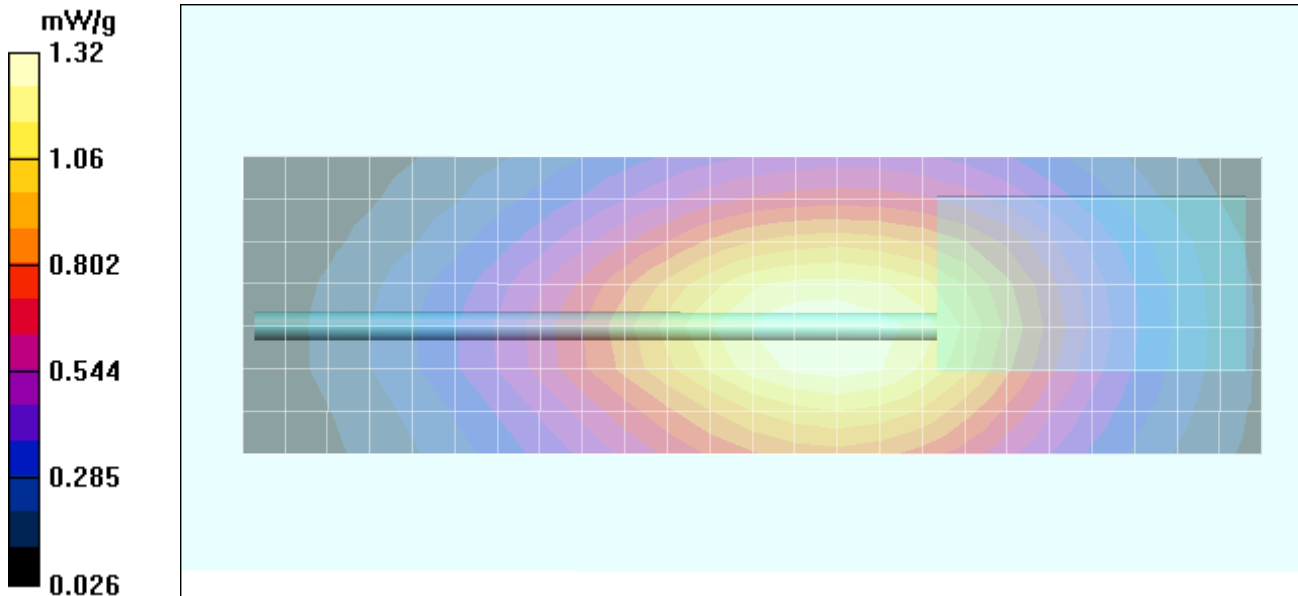
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.5 V/m; Power Drift = -0.396 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.30 mW/g; SAR(10 g) = 0.967 mW/g



Date Tested: 10/28/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.24 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

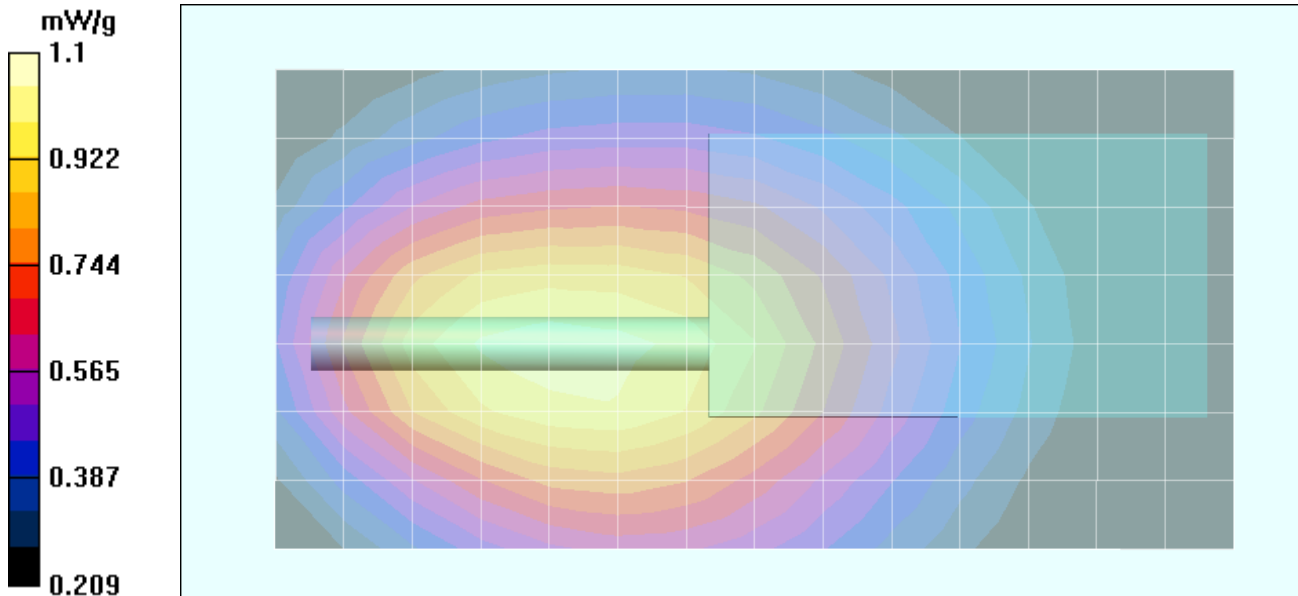
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x15x1):

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 = 35.2 V/m; Power Drift = -0.0889 dB
 Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.776 mW/g



Date Tested: 10/28/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

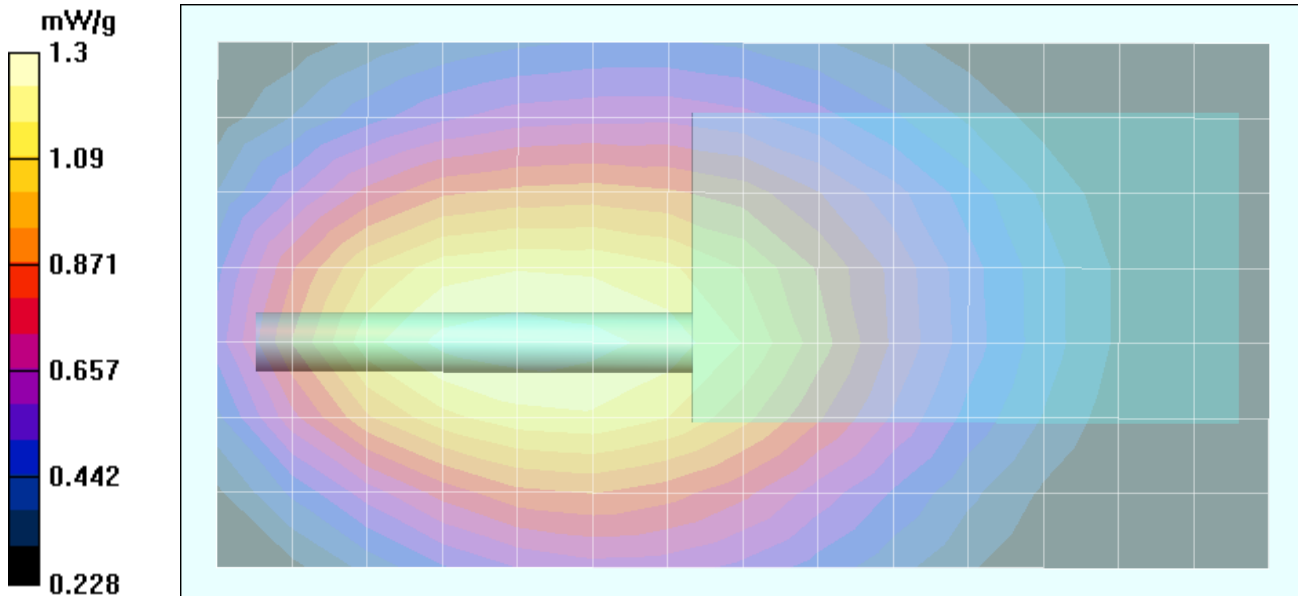
Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.36 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

- 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 (8x15x1):
 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 = 36.2 V/m; Power Drift = 0.667 dB
 Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.918 mW/g



Date Tested: 10/28/04

Face-Held SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF

Frequency: 155.05 MHz; Duty Cycle: 1:1

RF Output Power: 37.32 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: HSL150 ($\sigma = 0.73$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³)

- 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 (8x15x1):

Measurement grid: dx=15mm, dy=15mm

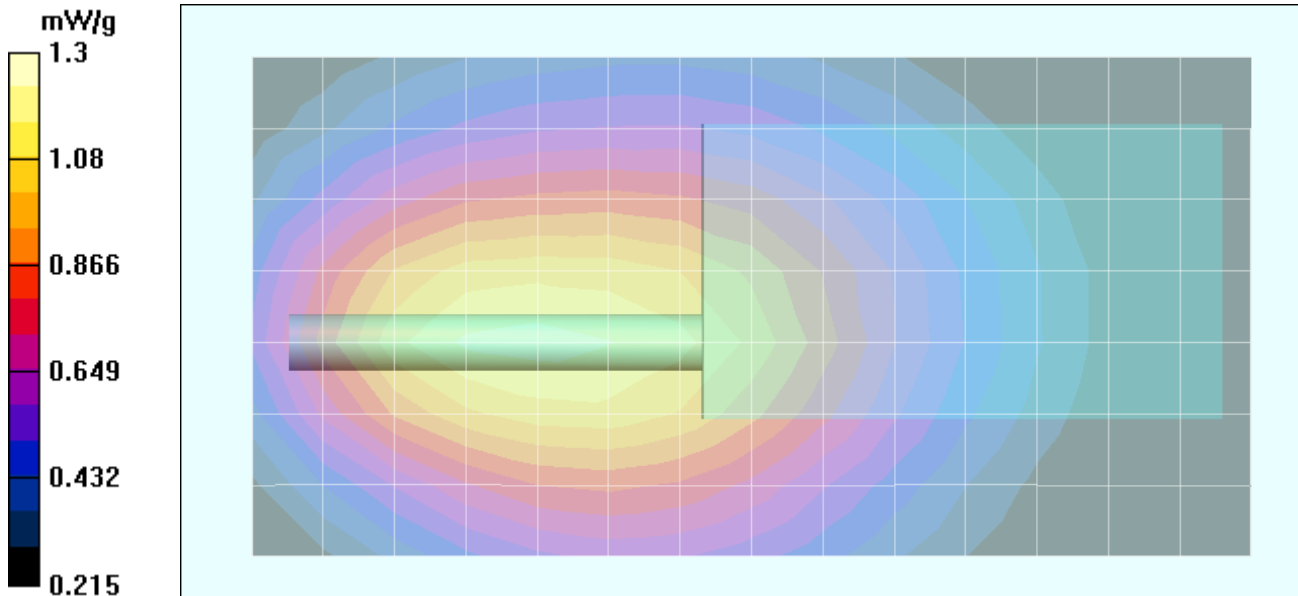
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 35.8 V/m; Power Drift = 0.461 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.916 mW/g



Date Tested: 10/28/04

Face-Held SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.37 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

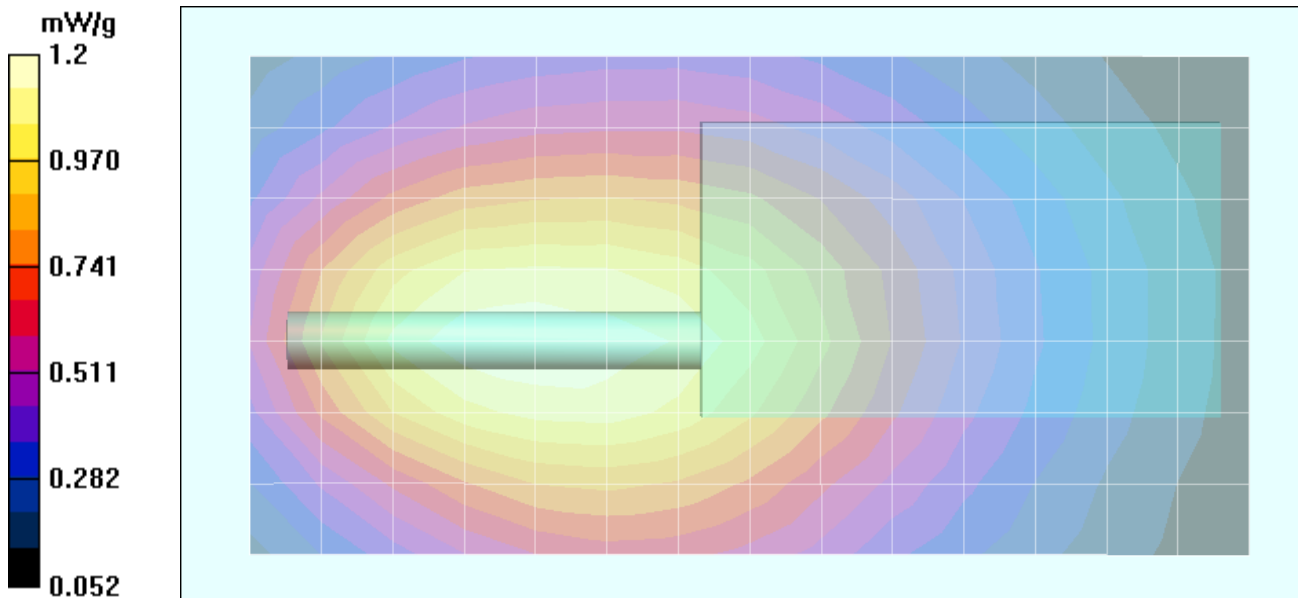
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x15x1):

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 = 34.8 V/m; Power Drift = 0.458 dB
 Peak SAR (extrapolated) = 1.9 W/kg
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.831 mW/g



Date Tested: 10/28/04

Face-Held SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.37 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

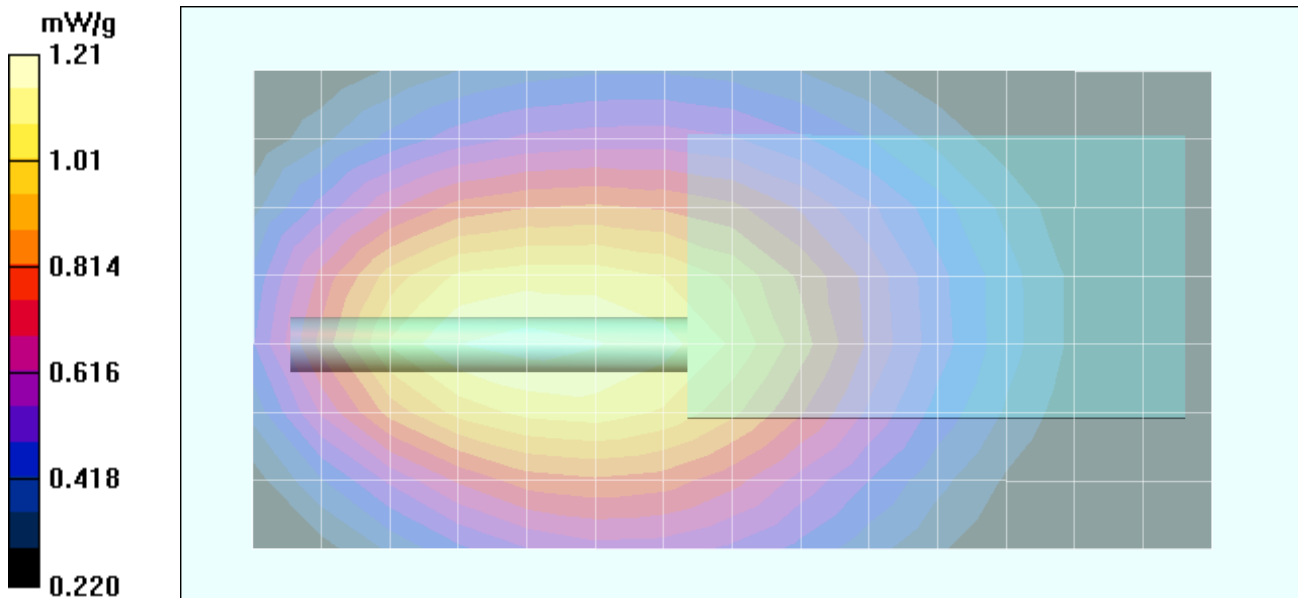
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x15x1):

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 = 34.8 V/m; Power Drift = 0.597 dB
 Peak SAR (extrapolated) = 1.94 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.855 mW/g



Date Tested: 10/28/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-16M3)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 136.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.42 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

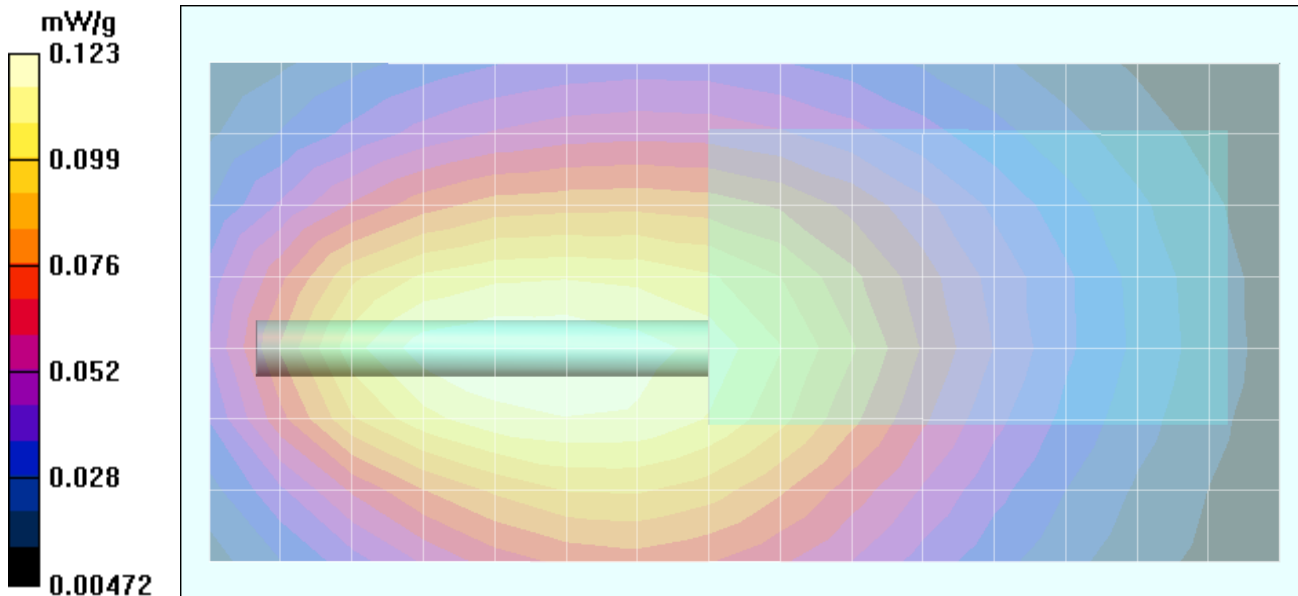
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Low Channel/Area Scan (8x16x1):

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 = 11.7 V/m; Power Drift = -0.0742 dB
 Peak SAR (extrapolated) = 0.201 W/kg
SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.085 mW/g



Date Tested: 10/28/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-16M2)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Ambient Temp: 23.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 173.95 MHz; Duty Cycle: 1:1
 RF Output Power: 37.32 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: HSL150 ($\sigma = 0.73 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$)

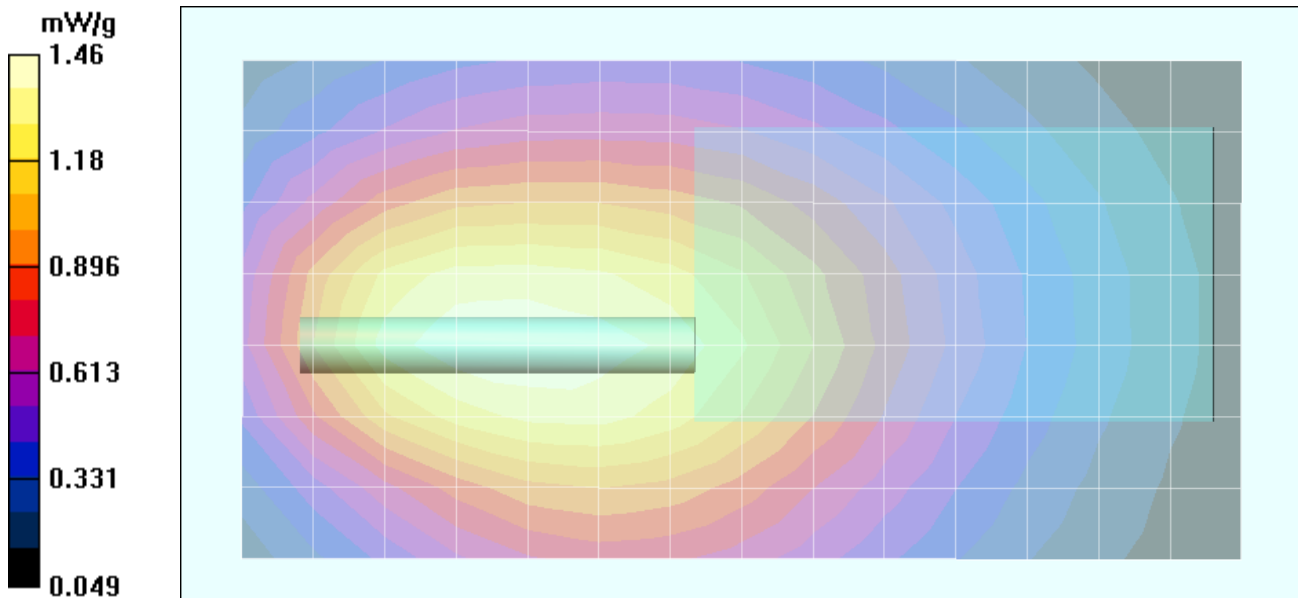
- Probe: ET3DV6 - SN1387; ConvF(9.1, 9.1, 9.1); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - High Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

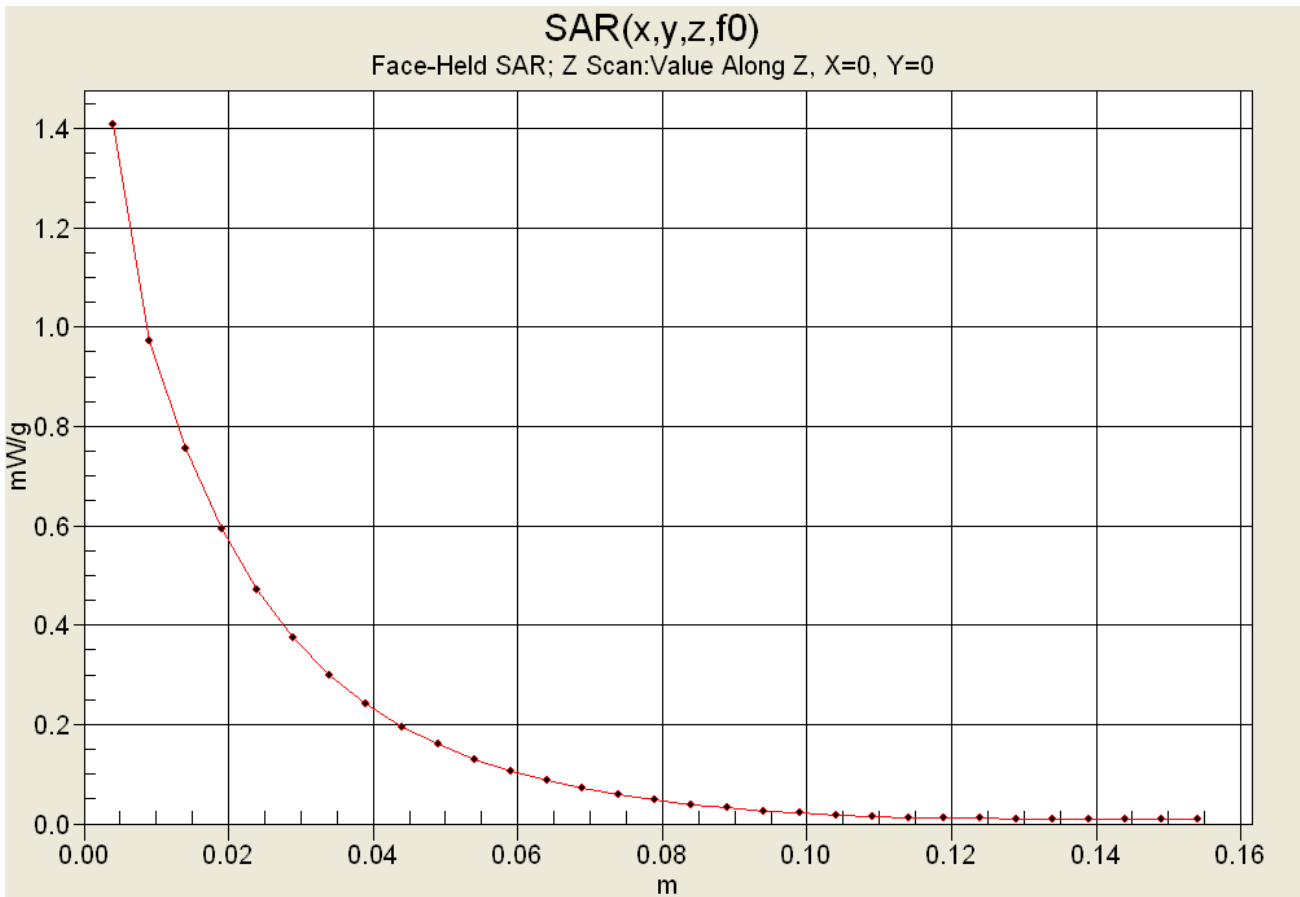
Face-Held - 2.5 cm Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 43.9 V/m; Power Drift = -0.823 dB
 Peak SAR (extrapolated) = 2.45 W/kg
SAR(1 g) = 1.41 mW/g; SAR(10 g) = 1.01 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Z-Axis Scan



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/29/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

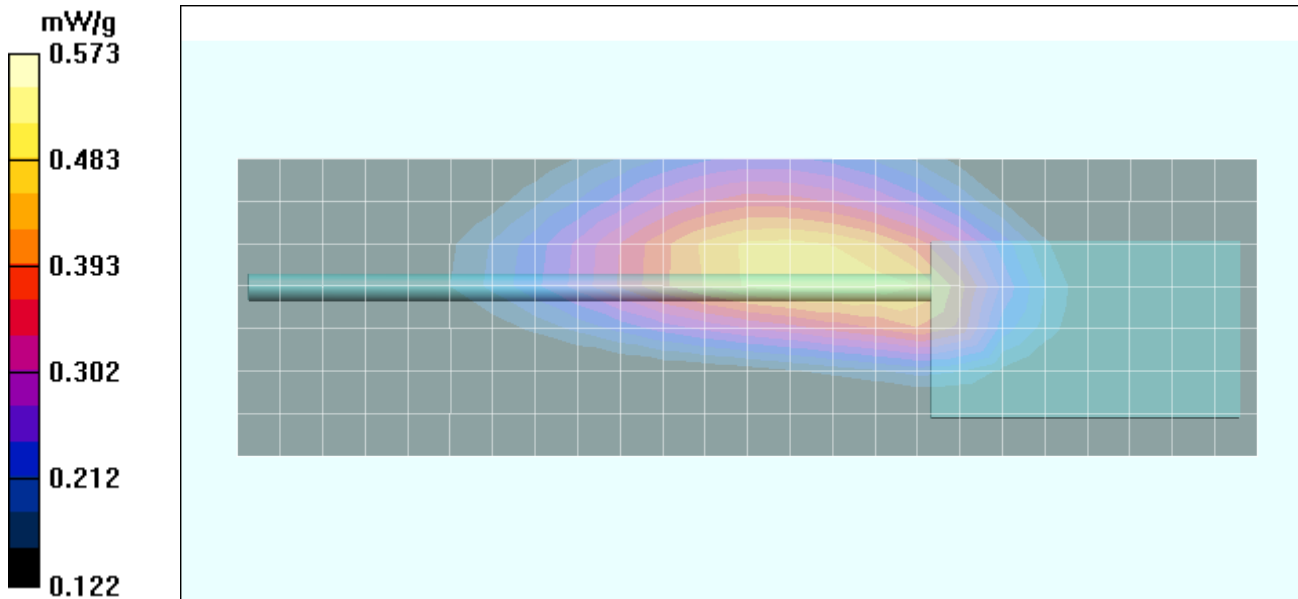
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.22 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 29.3 V/m; Power Drift = -0.354 dB
 Peak SAR (extrapolated) = 0.856 W/kg
SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.409 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/29/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

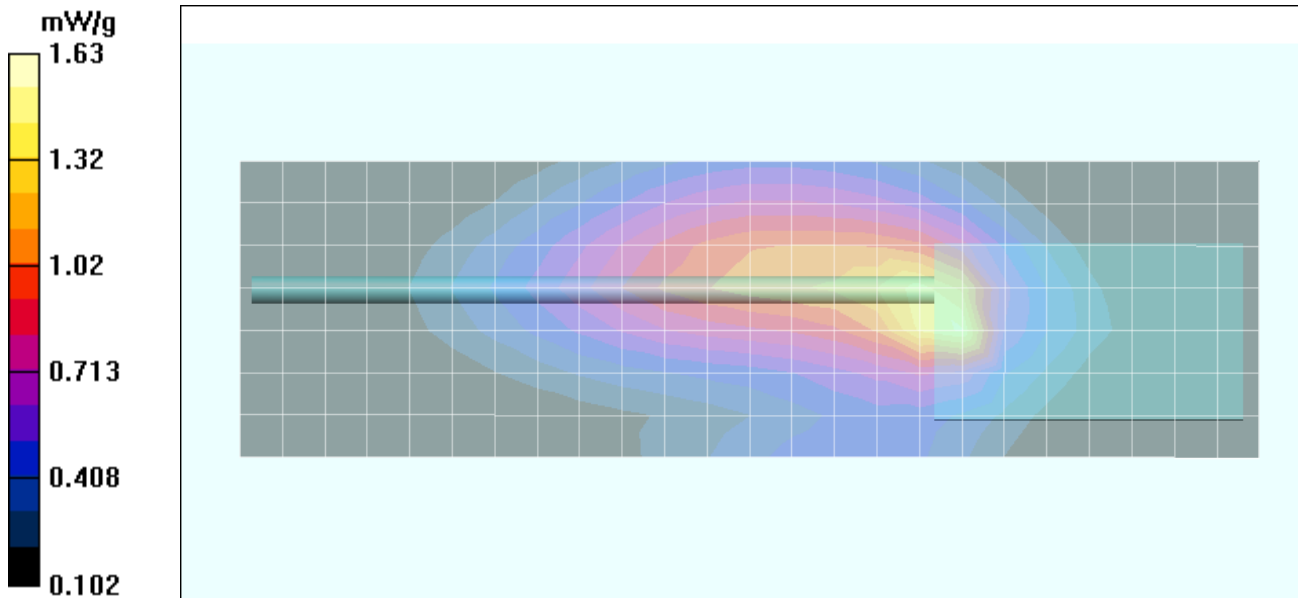
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.32 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 36.7 V/m; Power Drift = 1.29 dB
 Peak SAR (extrapolated) = 4.24 W/kg
SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.852 mW/g



Date Tested: 10/29/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

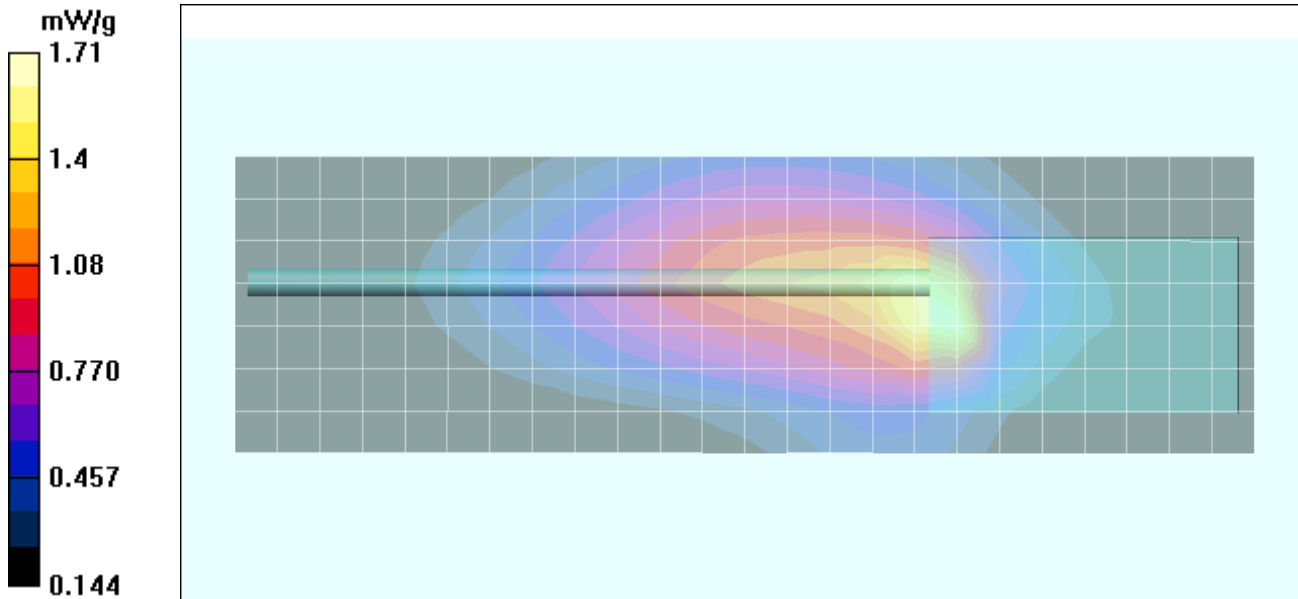
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.29 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 61.7$; $\rho = 1000$ kg/m³)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 45.3 V/m; Power Drift = -0.239 dB
 Peak SAR (extrapolated) = 4.52 W/kg
SAR(1 g) = 1.69 mW/g; SAR(10 g) = 0.961 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/29/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

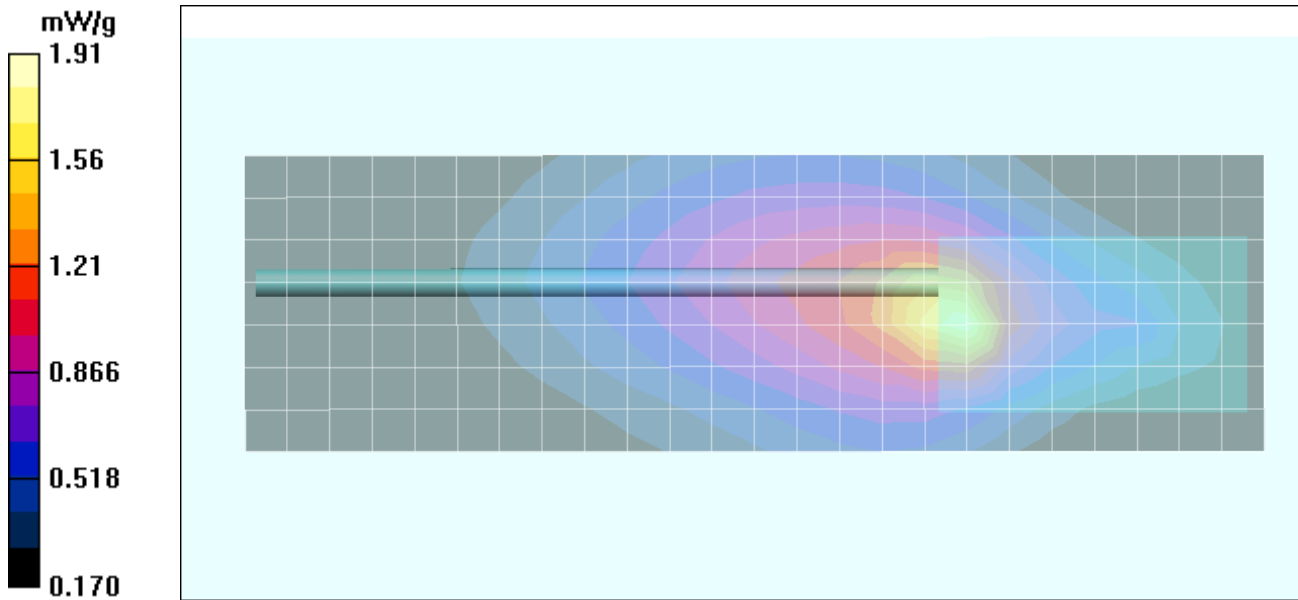
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.32 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 45.2 V/m; Power Drift = 0.758 dB
 Peak SAR (extrapolated) = 4.14 W/kg
SAR(1 g) = 1.85 mW/g; SAR(10 g) = 1.14 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/29/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

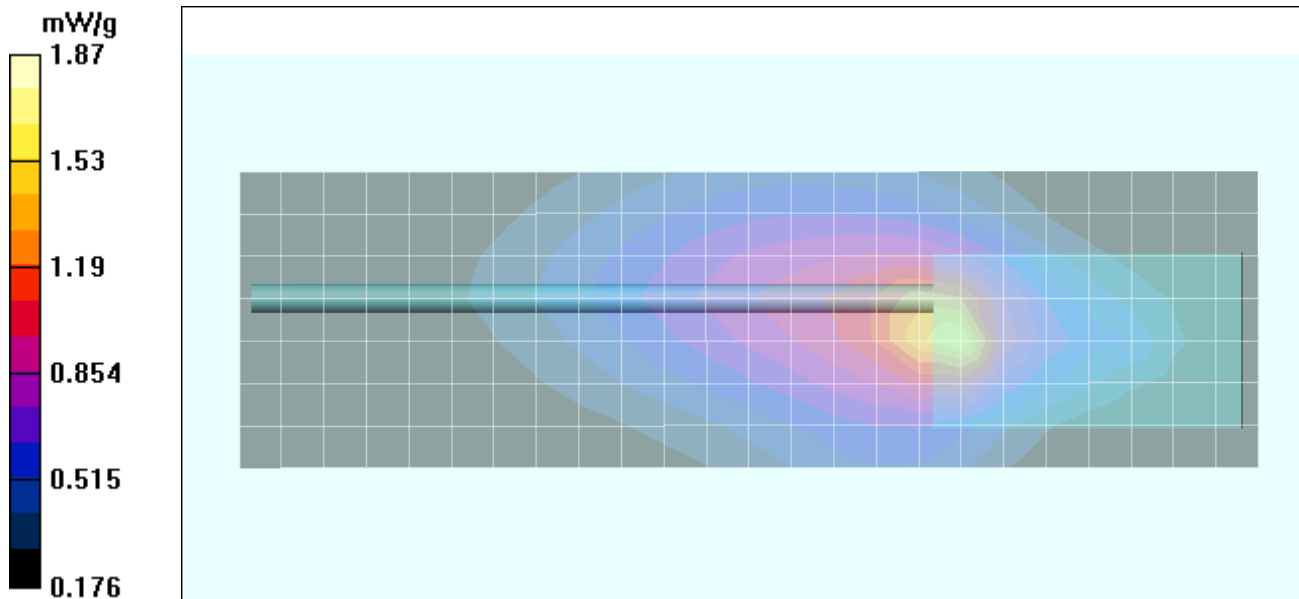
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.32 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 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 = 46.7 V/m; Power Drift = 0.103 dB
 Peak SAR (extrapolated) = 3.99 W/kg
SAR(1 g) = 1.81 mW/g; SAR(10 g) = 1.11 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/29/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

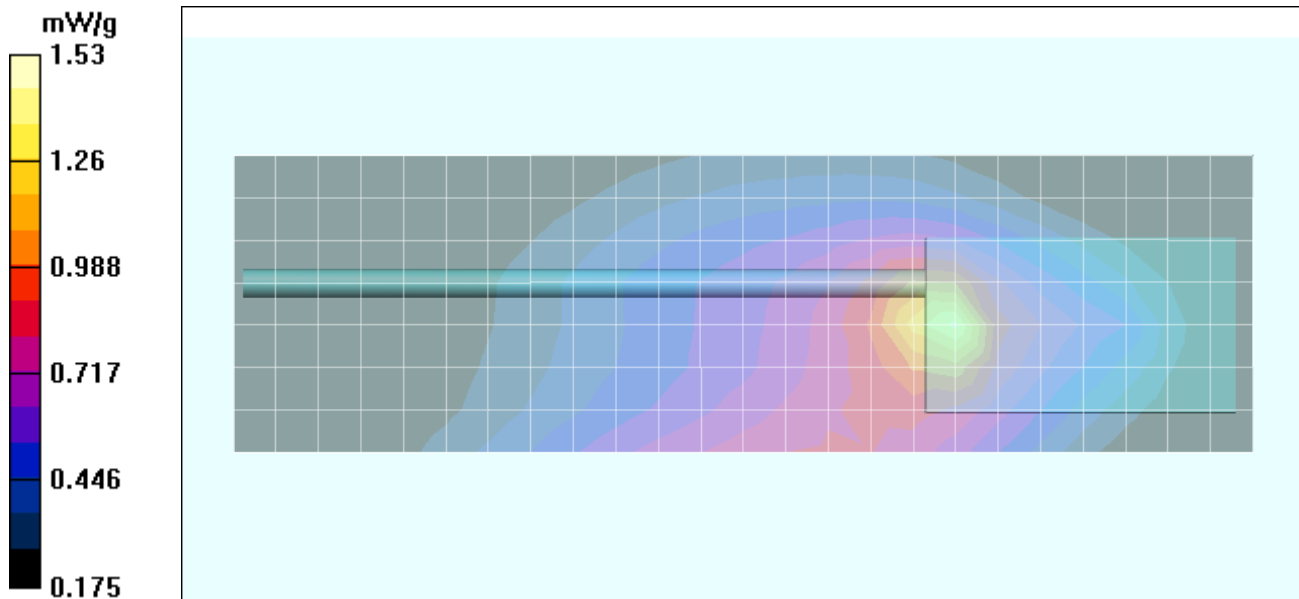
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.20 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 47.2 V/m; Power Drift = -1.09 dB
 Peak SAR (extrapolated) = 3.22 W/kg
SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.938 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/29/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

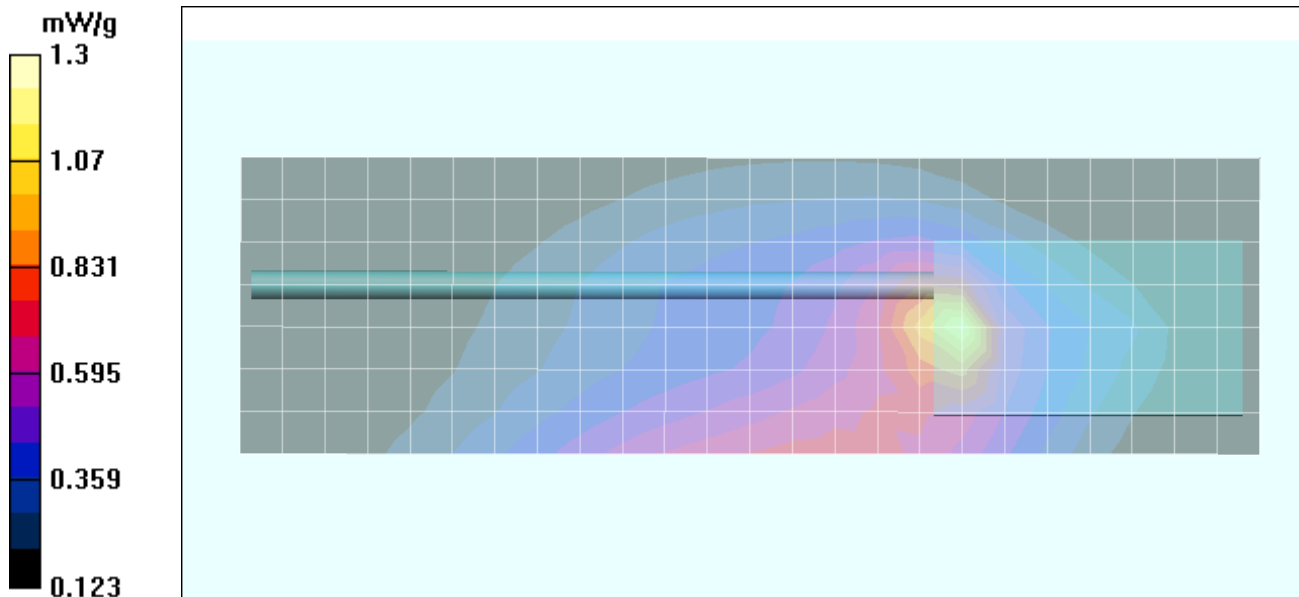
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.24 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 61.7$; $\rho = 1000$ kg/m³)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 39.6 V/m; Power Drift = -0.370 dB
 Peak SAR (extrapolated) = 3.45 W/kg
SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.735 mW/g



Date Tested: 10/29/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

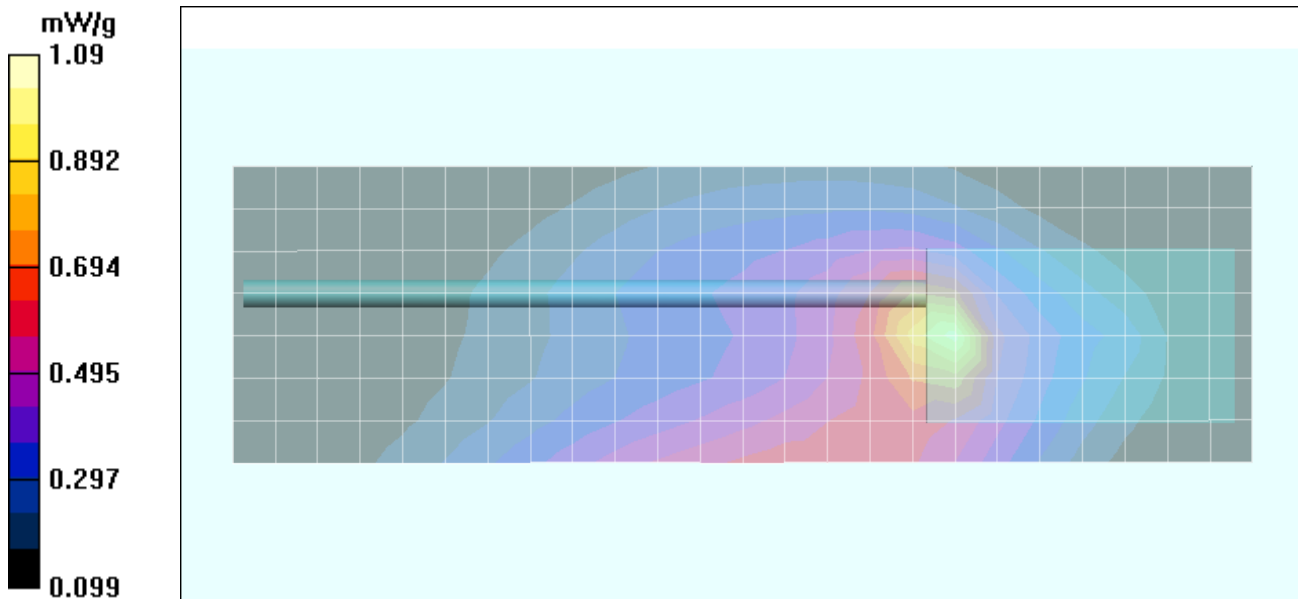
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.24 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 36.7 V/m; Power Drift = -0.501 dB
 Peak SAR (extrapolated) = 2.72 W/kg
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.611 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/29/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

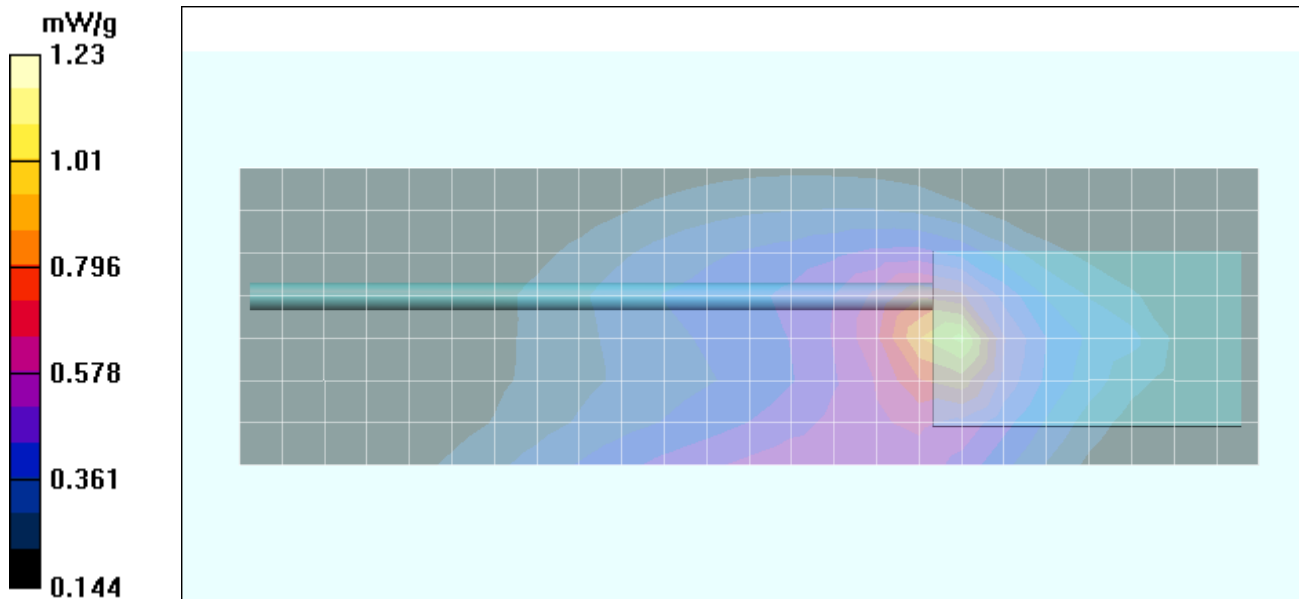
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.31 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 40.9 V/m; Power Drift = -0.615 dB
 Peak SAR (extrapolated) = 2.61 W/kg
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.742 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/29/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Long Whip Antenna (P/N: KRA-25)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

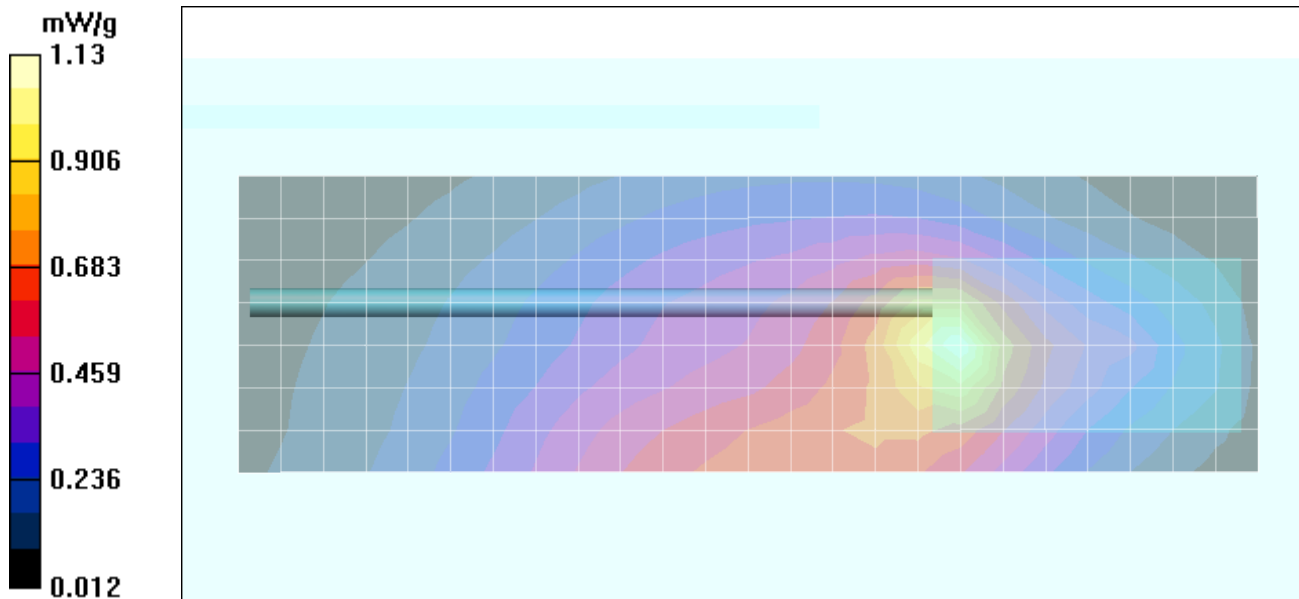
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.29 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 39.3 V/m; Power Drift = -0.578 dB
 Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 1.10 mW/g; SAR(10 g) = 0.696 mW/g



Date Tested: 10/29/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

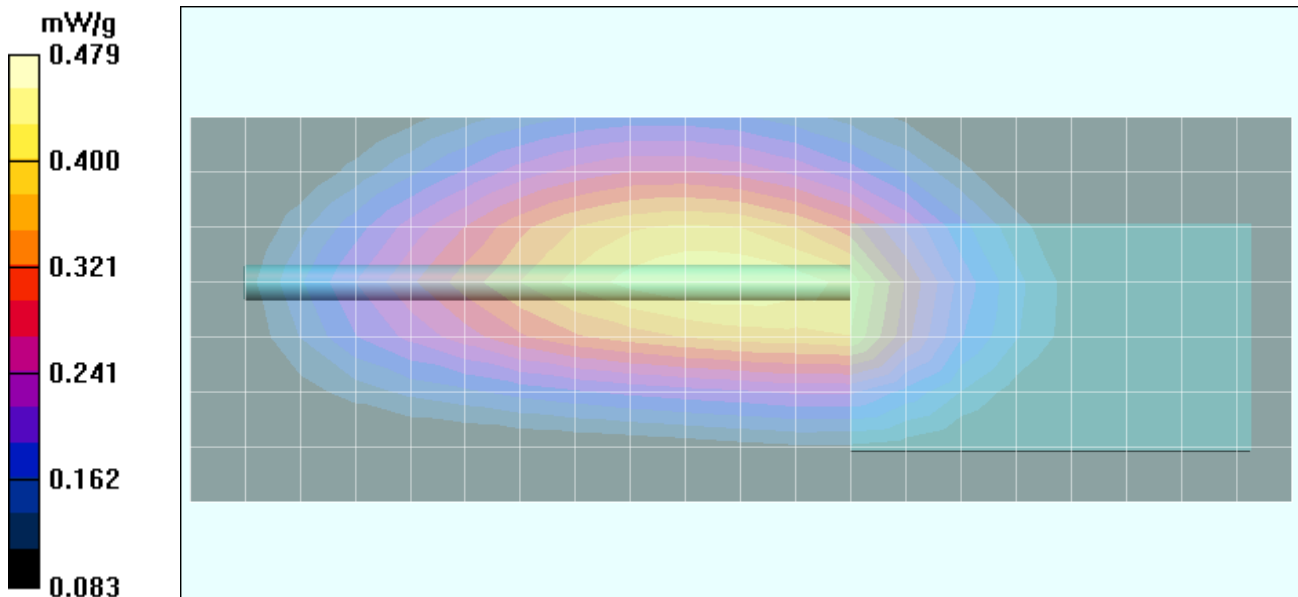
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.19 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 22.6 V/m; Power Drift = -0.284 dB
 Peak SAR (extrapolated) = 0.726 W/kg
SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.331 mW/g



Date Tested: 10/29/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

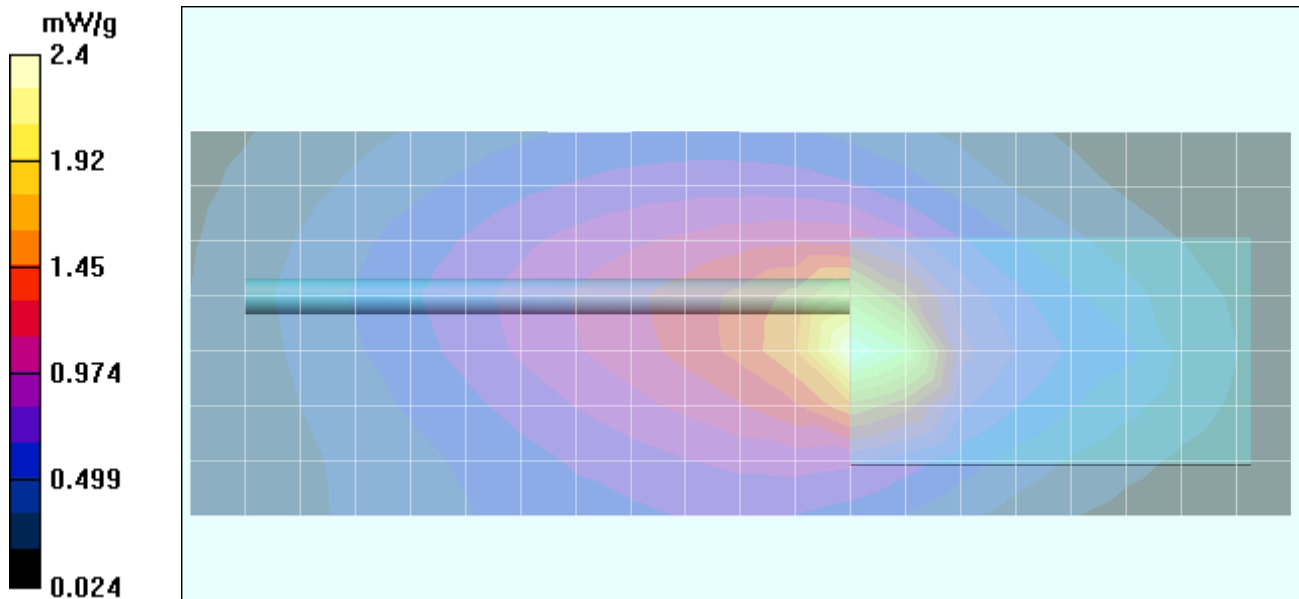
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.26 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 44.4 V/m; Power Drift = -0.251 dB
 Peak SAR (extrapolated) = 4.83 W/kg
SAR(1 g) = 1.69 mW/g; SAR(10 g) = 0.929 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/29/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

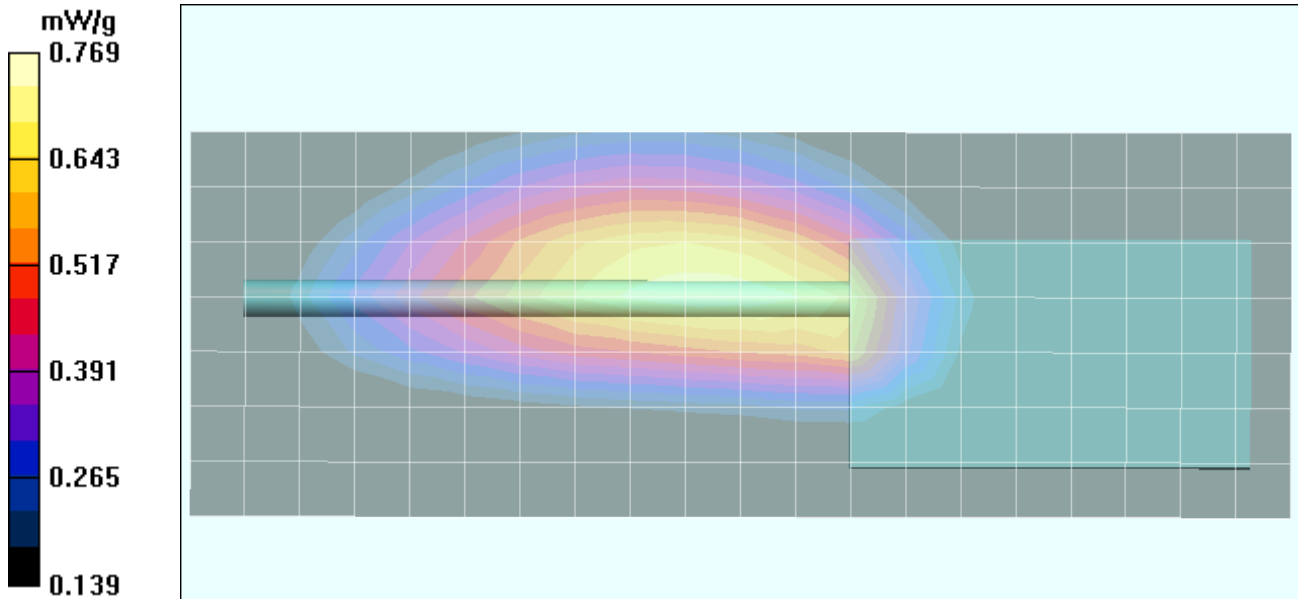
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.20 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 61.7$; $\rho = 1000$ kg/m³)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 29 V/m; Power Drift = 1.33 dB
 Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.519 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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Date Tested: 10/29/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

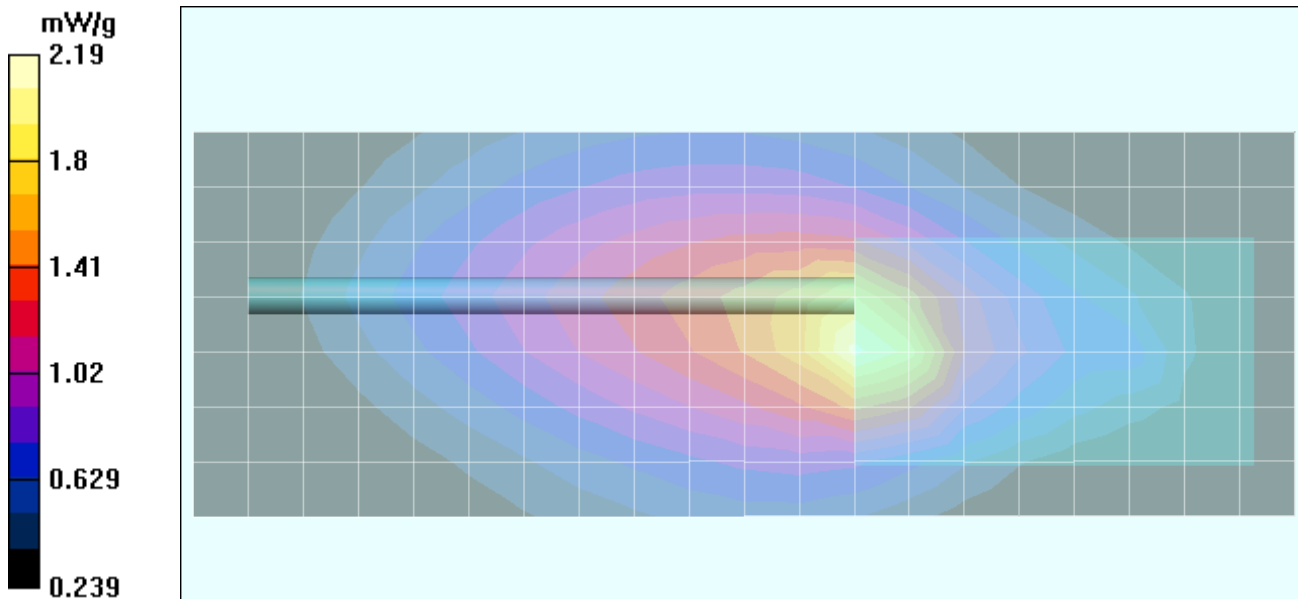
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.28 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 53.5 V/m; Power Drift = -0.343 dB
 Peak SAR (extrapolated) = 4.7 W/kg
SAR(1 g) = 2.14 mW/g; SAR(10 g) = 1.33 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/29/04

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

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

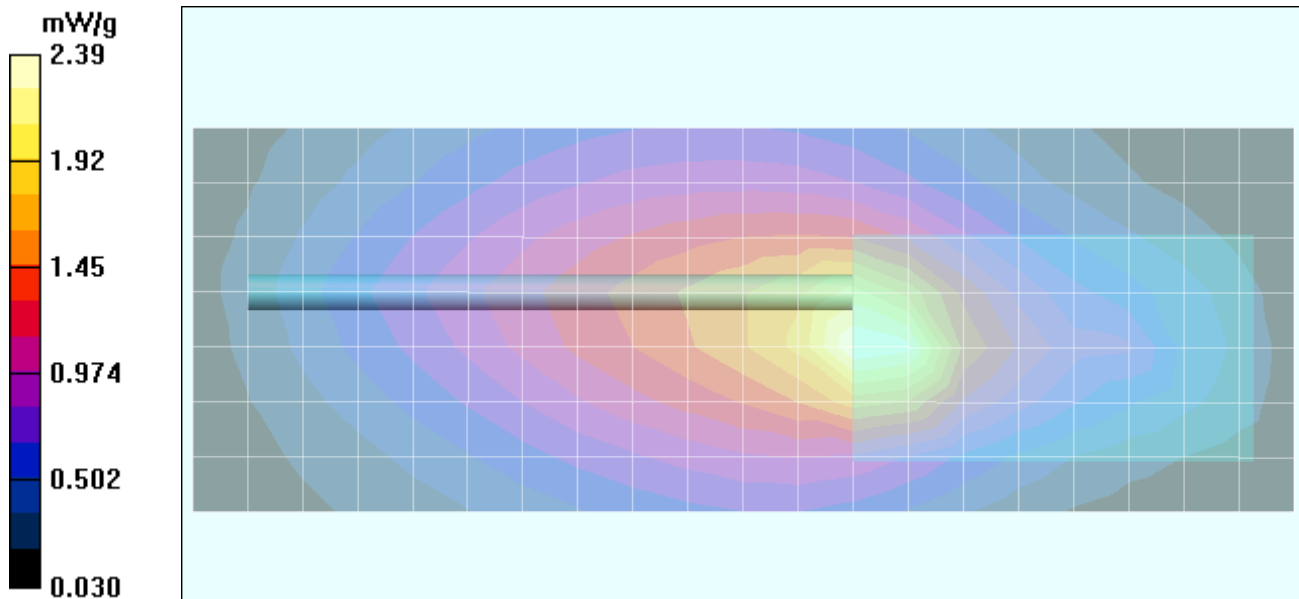
Ambient Temp: 22.9 °C; Fluid Temp: 22.4 °C; Barometric Pressure: 102.7 kPa; Humidity: 32%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.27 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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

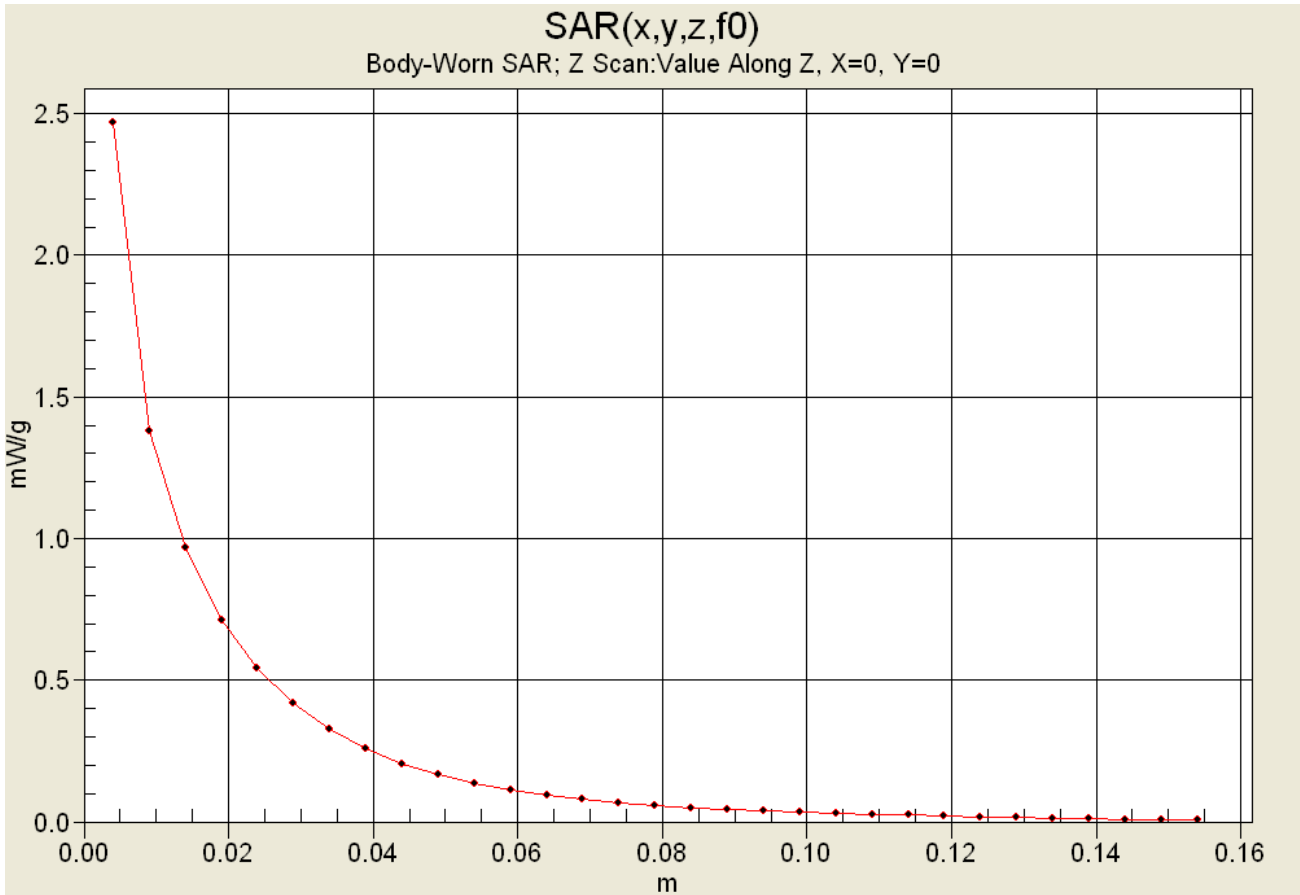
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 51.6 V/m; Power Drift = 0.484 dB
 Peak SAR (extrapolated) = 5.06 W/kg
SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.41 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Z-Axis Scan



Date Tested: 10/30/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-26M3)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 136.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.41 dBm (Conducted)
 RF Output Power: 37.42 dBm (Conducted) 2nd Maximum
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 62.3$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 63 V/m; Power Drift = -0.828 dB

Peak SAR (extrapolated) = 5.18 W/kg

SAR(1 g) = 2.81 mW/g; SAR(10 g) = 1.97 mW/g

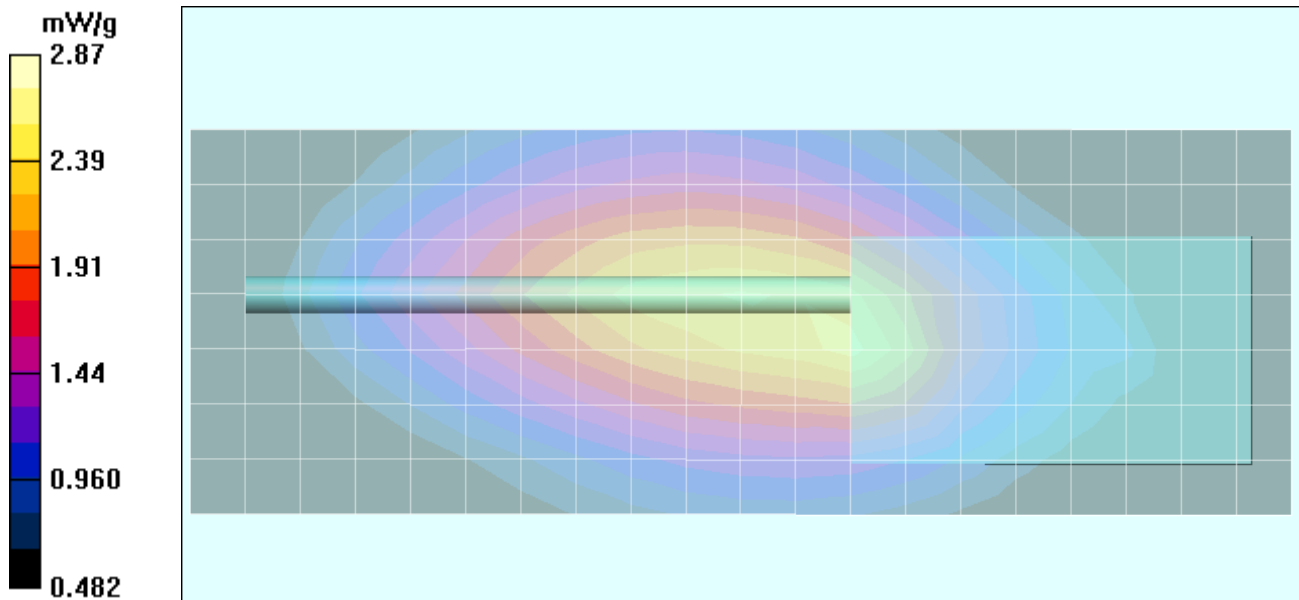
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 63 V/m; Power Drift = -0.568 dB

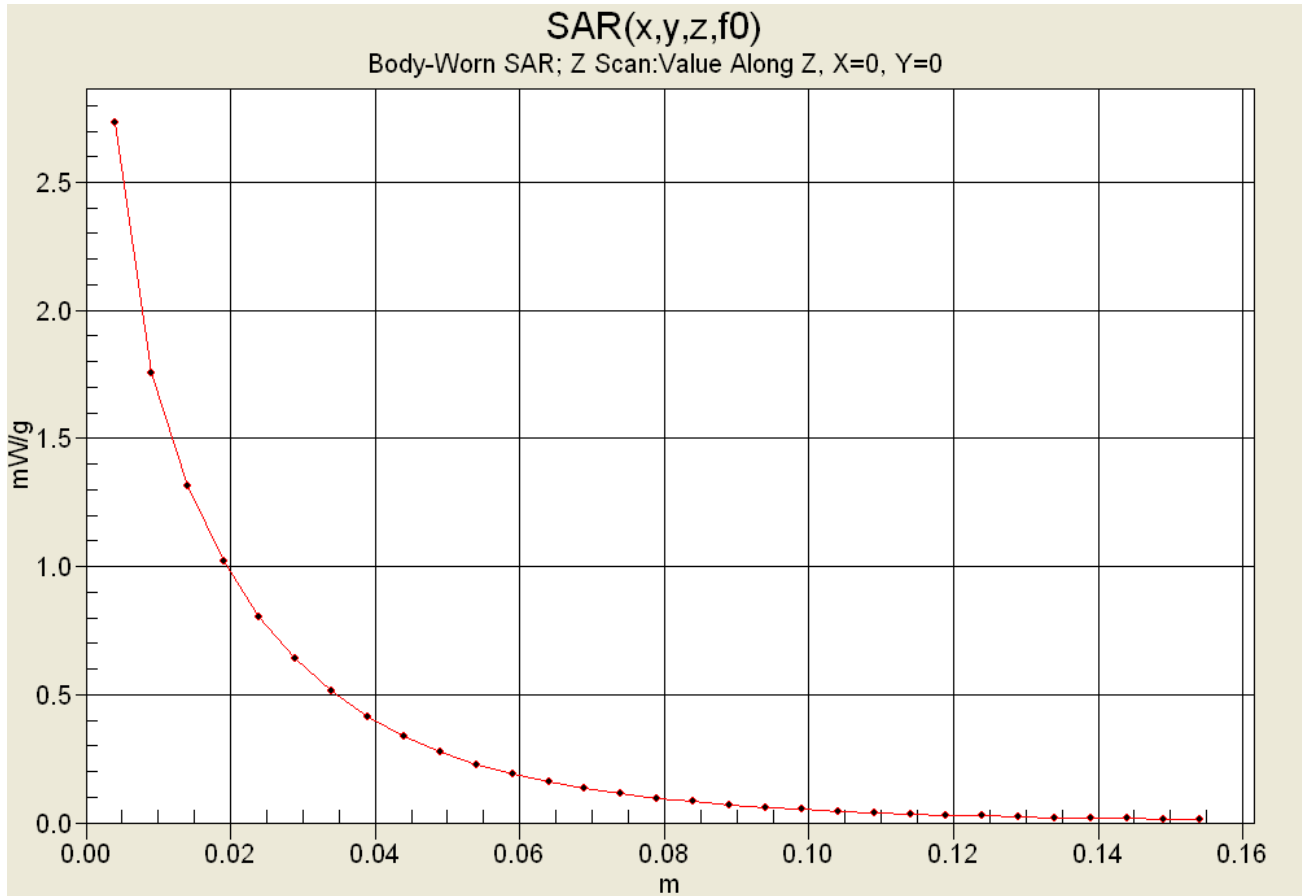
Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 2.72 mW/g; SAR(10 g) = 1.99 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Z-Axis Scan



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/30/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-26M2)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 173.95 MHz; Duty Cycle: 1:1
 RF Output Power: 37.30 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 62.3$; $\rho = 1000 \text{ kg/m}^3$)

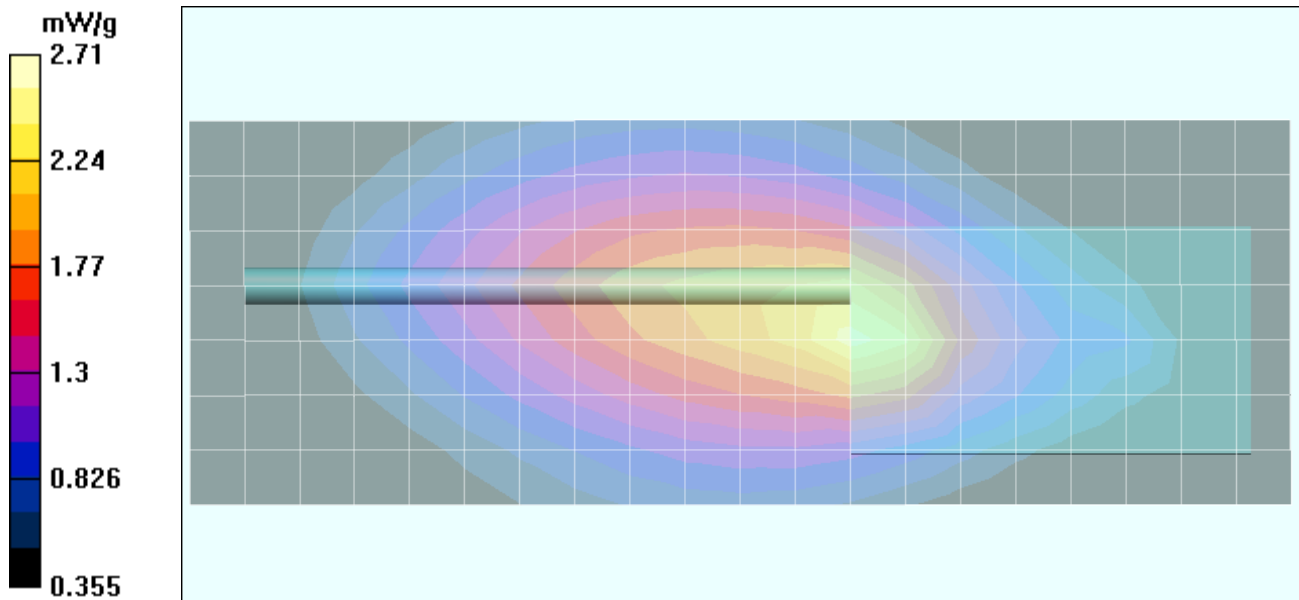
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 59.9 V/m; Power Drift = -0.504 dB
 Peak SAR (extrapolated) = 5.52 W/kg
SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.76 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/30/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

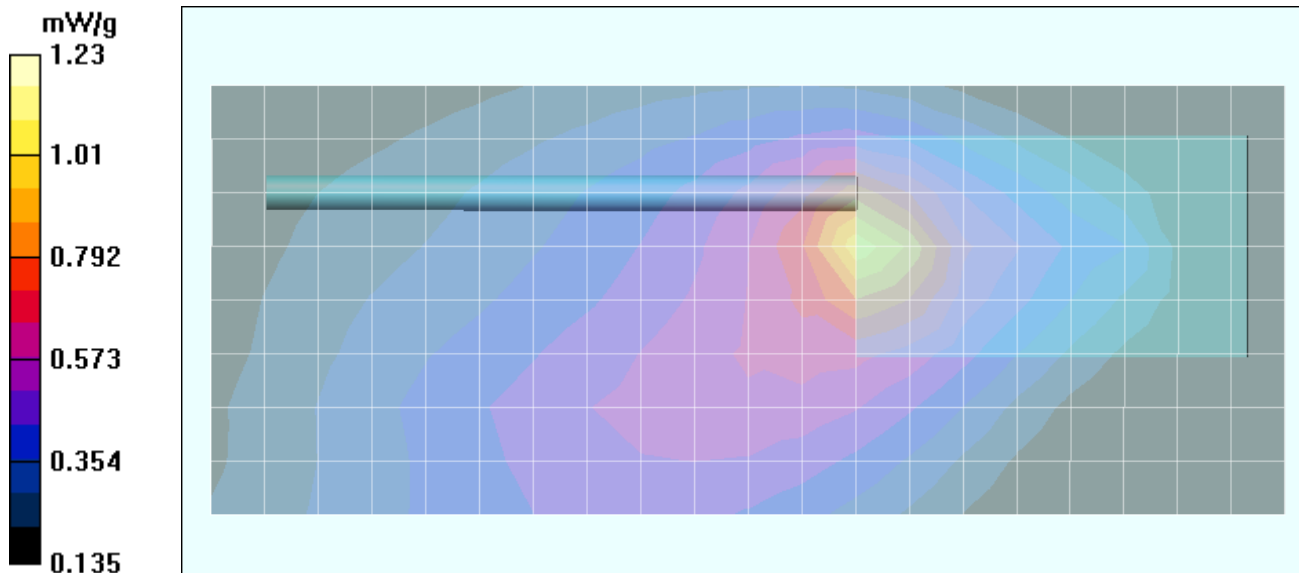
Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.20 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 62.3$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 41.3 V/m; Power Drift = -0.973 dB
 Peak SAR (extrapolated) = 2.74 W/kg
SAR(1 g) = 1.20 mW/g; SAR(10 g) = 0.740 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/30/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

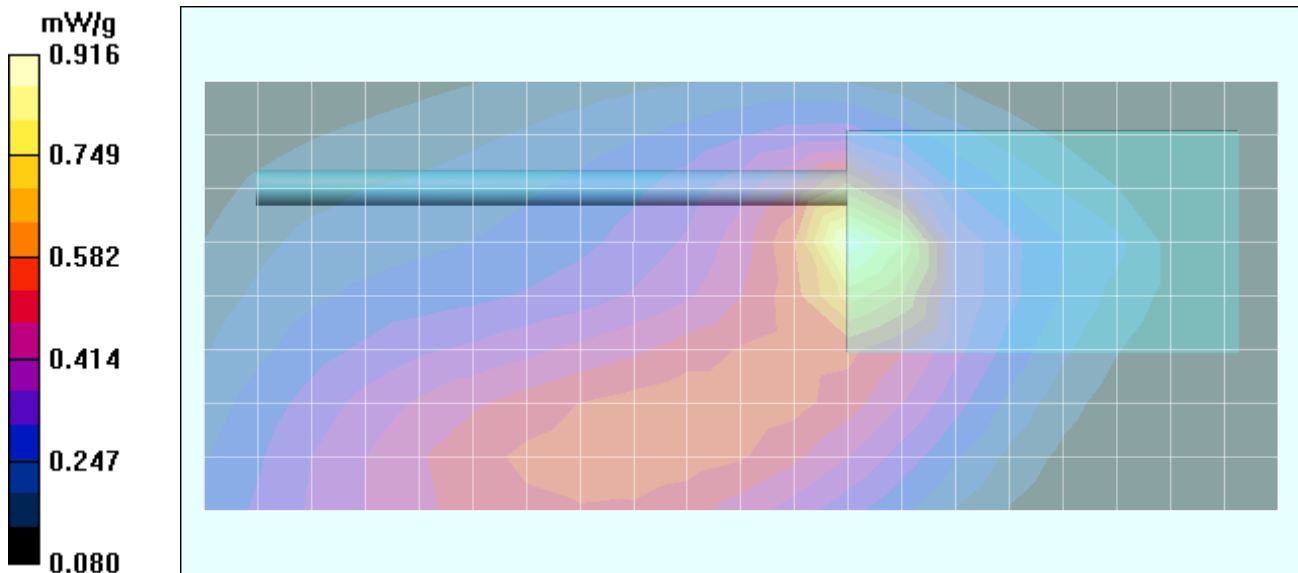
Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.28 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 62.3$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 33.6 V/m; Power Drift = -0.295 dB
 Peak SAR (extrapolated) = 2.71 W/kg
SAR(1 g) = 0.943 mW/g; SAR(10 g) = 0.518 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/30/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

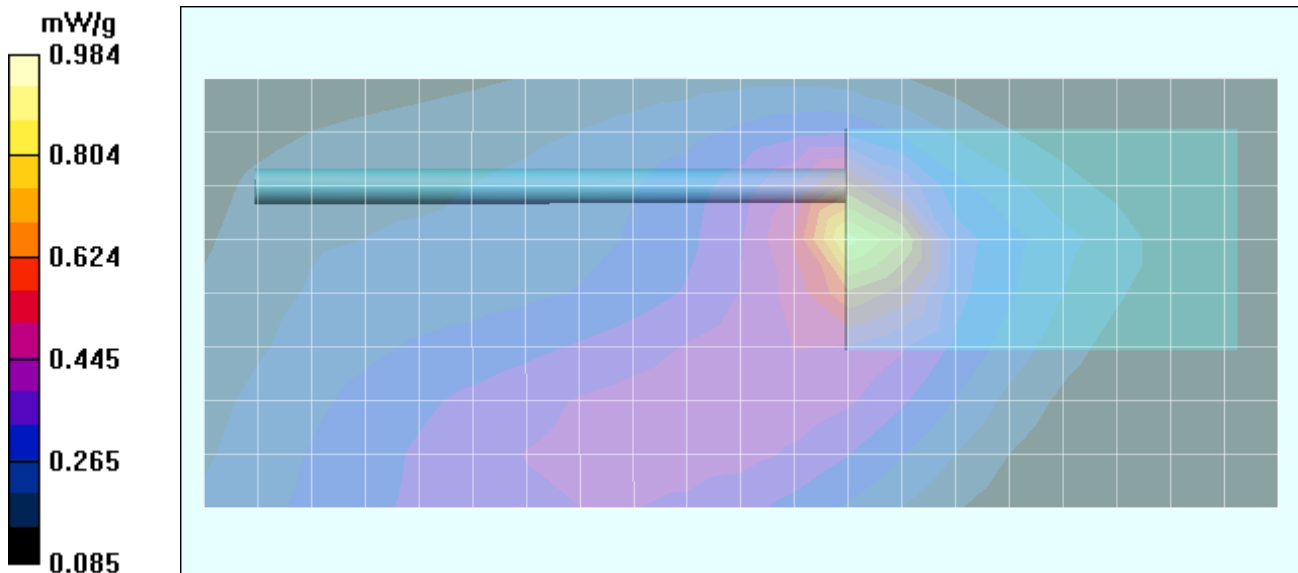
Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.25 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 62.3$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 34.6 V/m; Power Drift = -0.461 dB
 Peak SAR (extrapolated) = 2.6 W/kg
SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.546 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/30/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-26M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

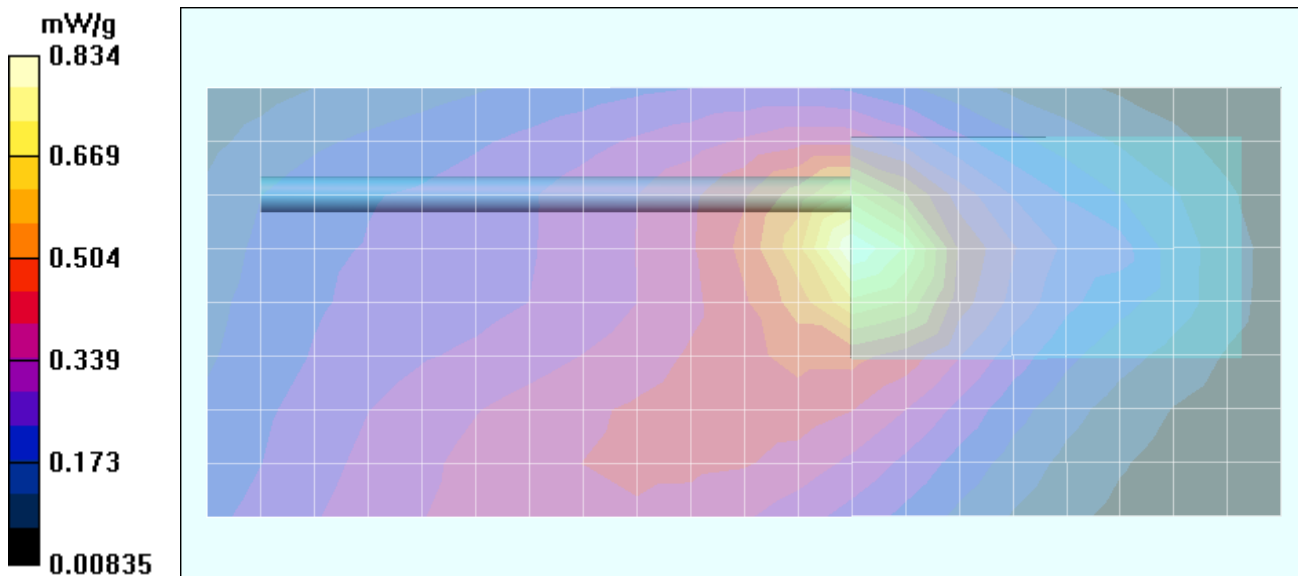
Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.30 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 62.3$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 31 V/m; Power Drift = -0.537 dB
 Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.433 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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Date Tested: 10/30/04

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

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 22.6 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.27 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.78$ mho/m; $\epsilon_r = 62.3$; $\rho = 1000$ kg/m³)

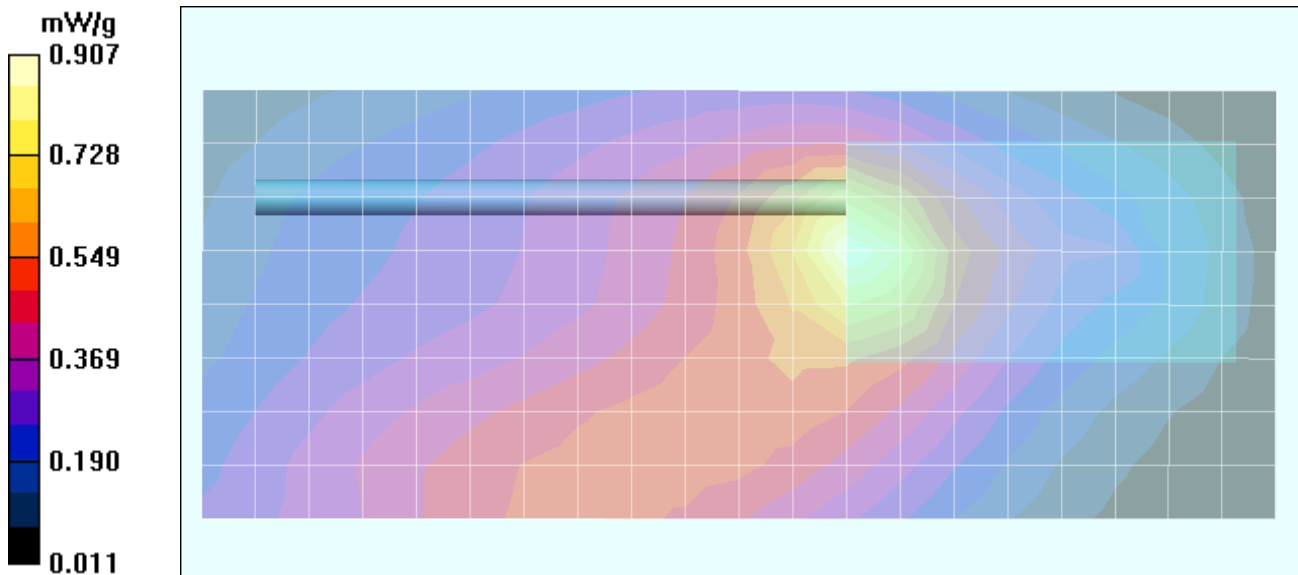
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 35.4 V/m; Power Drift = -0.712 dB
 Peak SAR (extrapolated) = 1.96 W/kg
SAR(1 g) = 0.896 mW/g; SAR(10 g) = 0.566 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/31/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

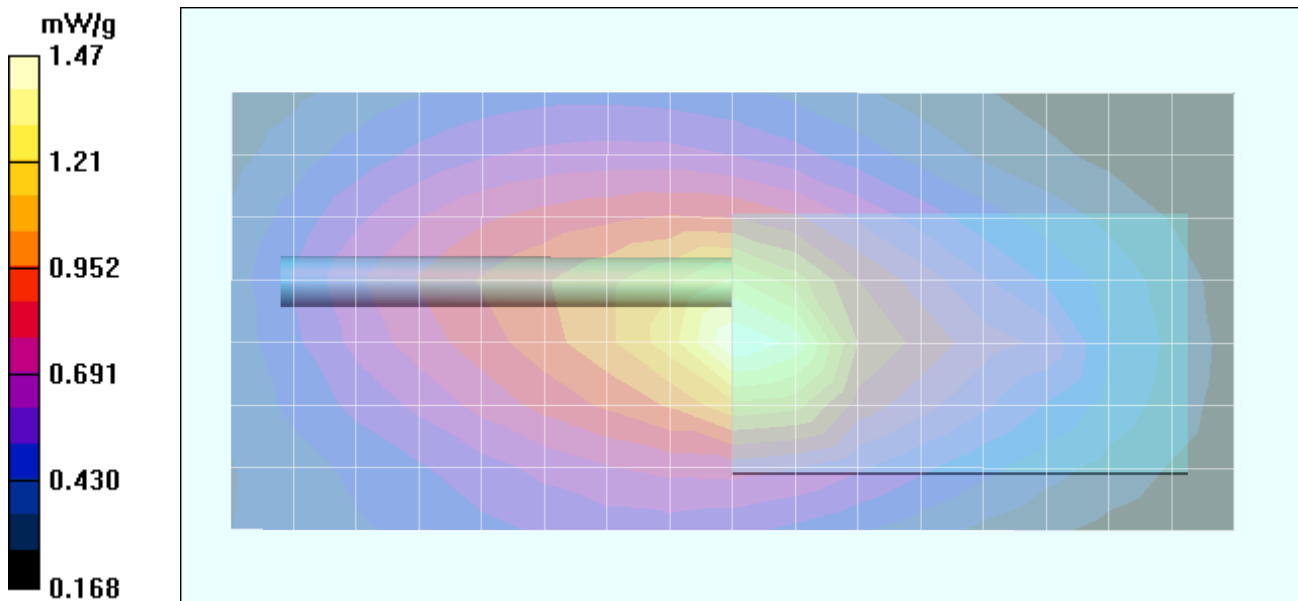
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.18 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

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

Body Worn - 1.0 cm Belt Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 42.8 V/m; Power Drift = -0.558 dB
 Peak SAR (extrapolated) = 3.14 W/kg
SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.895 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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Date Tested: 10/31/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.30 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

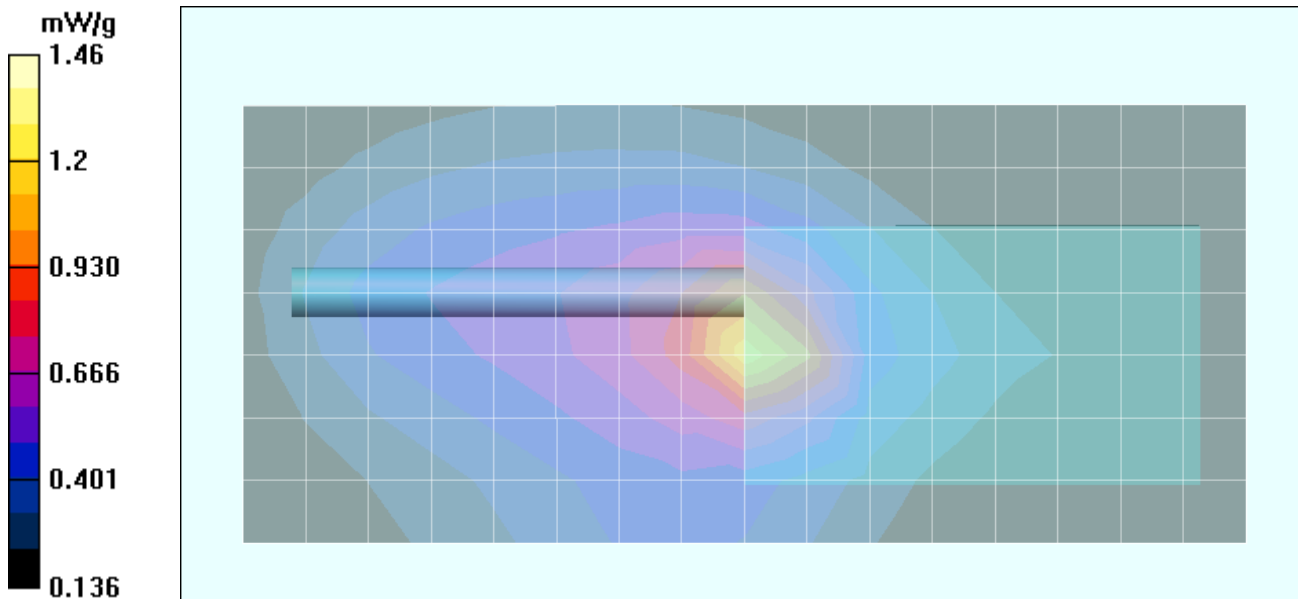
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x17x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 43 V/m; Power Drift = -0.410 dB
 Peak SAR (extrapolated) = 3.98 W/kg
SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.848 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/31/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

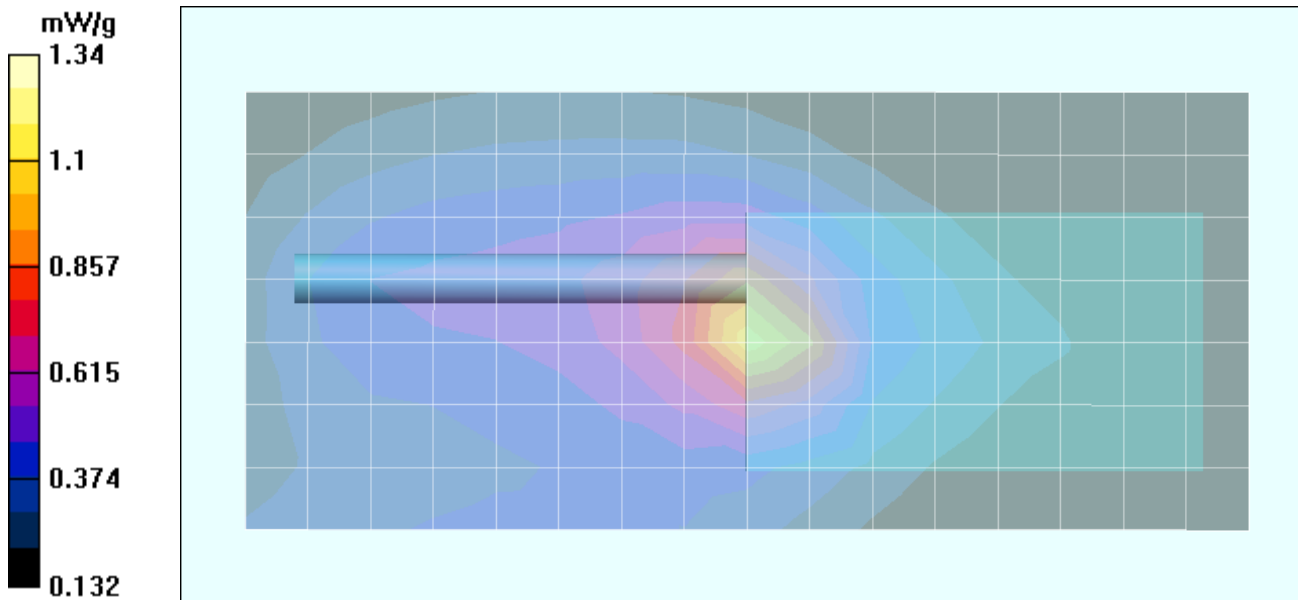
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.26 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 60.9$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x17x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 40.8 V/m; Power Drift = -0.276 dB
 Peak SAR (extrapolated) = 3.69 W/kg
SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.778 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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Date Tested: 10/31/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.32 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

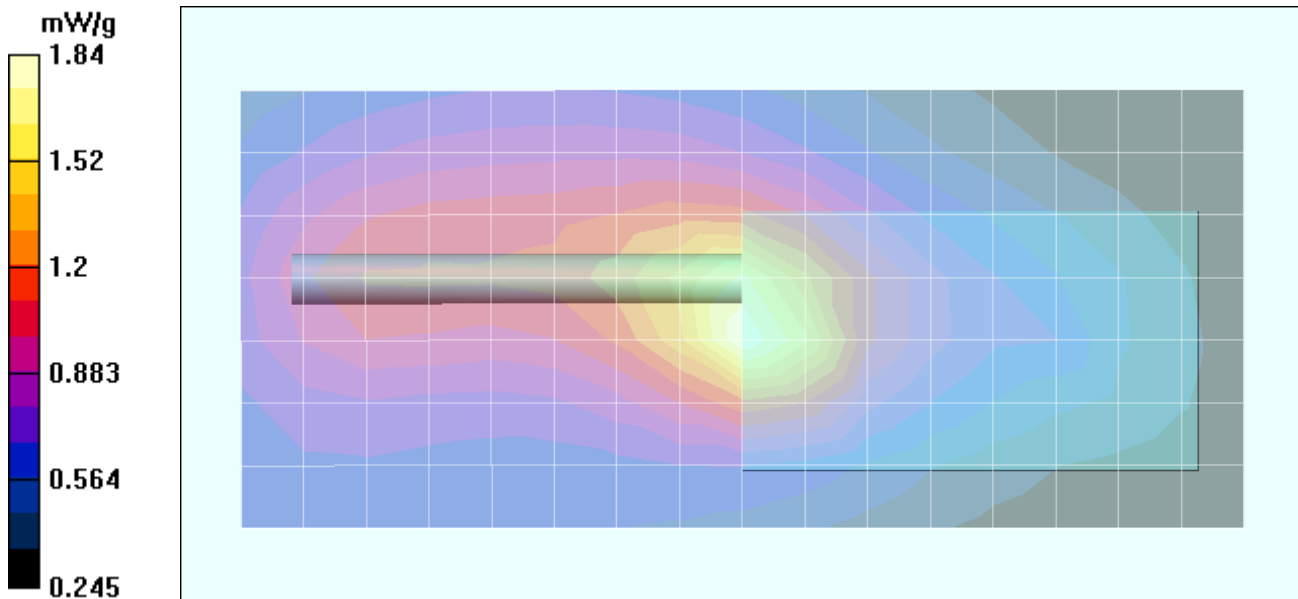
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x17x1):

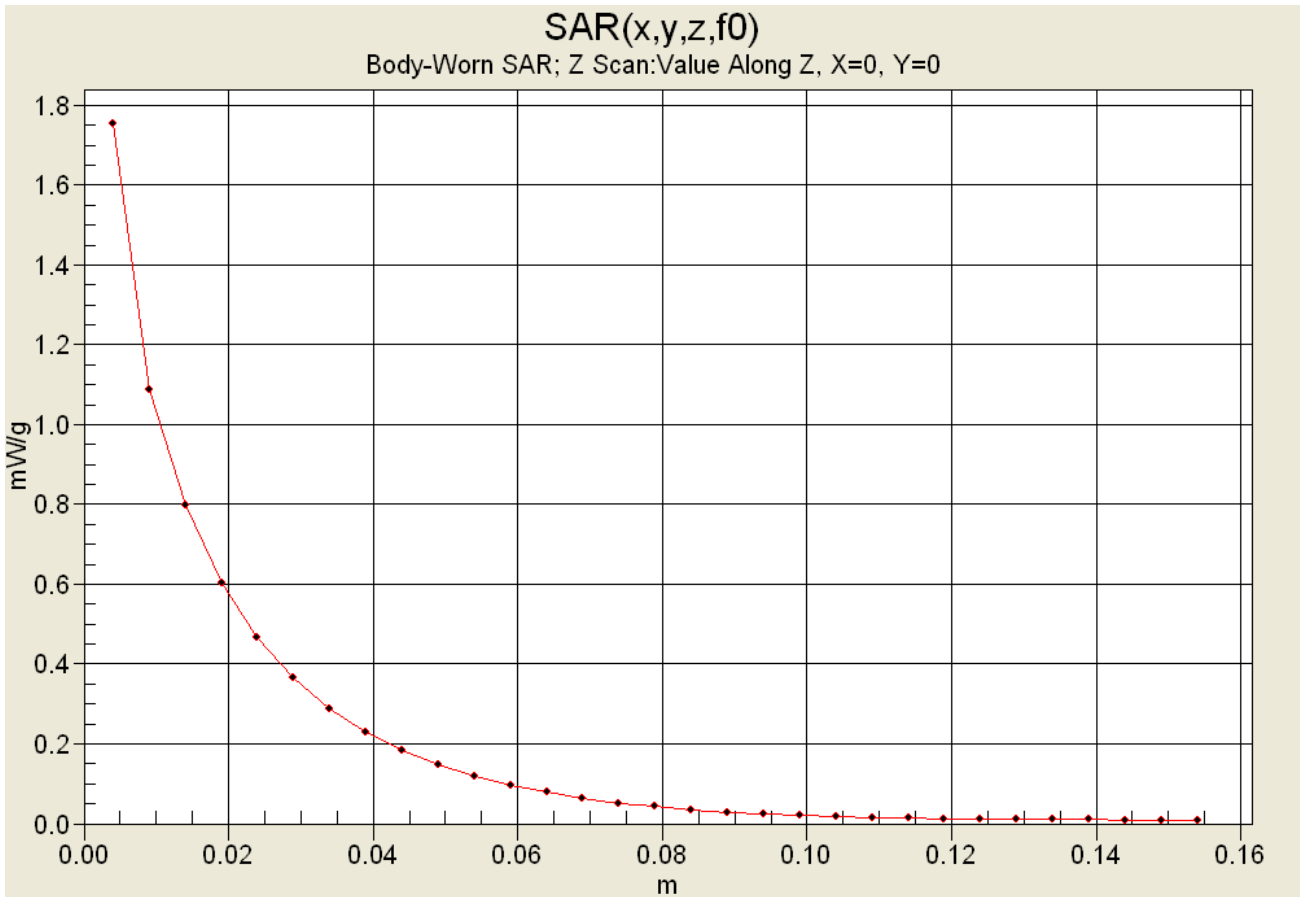
Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 50.5 V/m; Power Drift = -0.522 dB
 Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 1.84 mW/g; SAR(10 g) = 1.19 mW/g



Z-Axis Scan



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/31/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

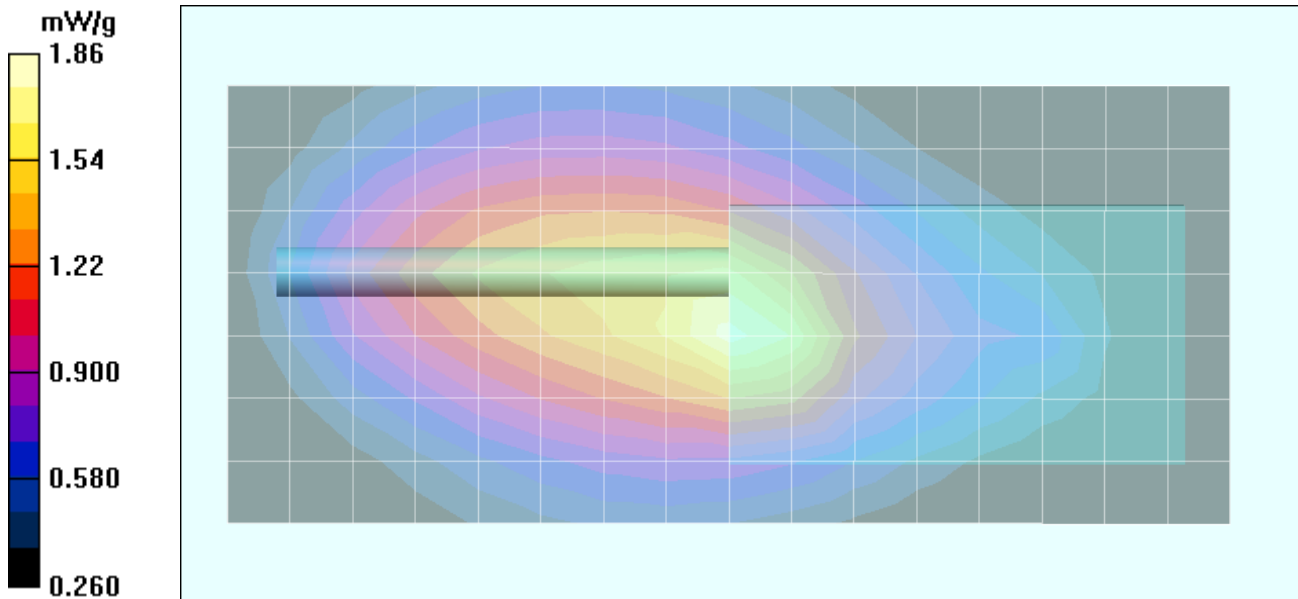
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.26 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

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

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 50.5 V/m; Power Drift = -0.611 dB
 Peak SAR (extrapolated) = 3.67 W/kg
SAR(1 g) = 1.83 mW/g; SAR(10 g) = 1.2 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/31/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-22M3)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 136.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.37 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 60.9$; $\rho = 1000 \text{ kg/m}^3$)

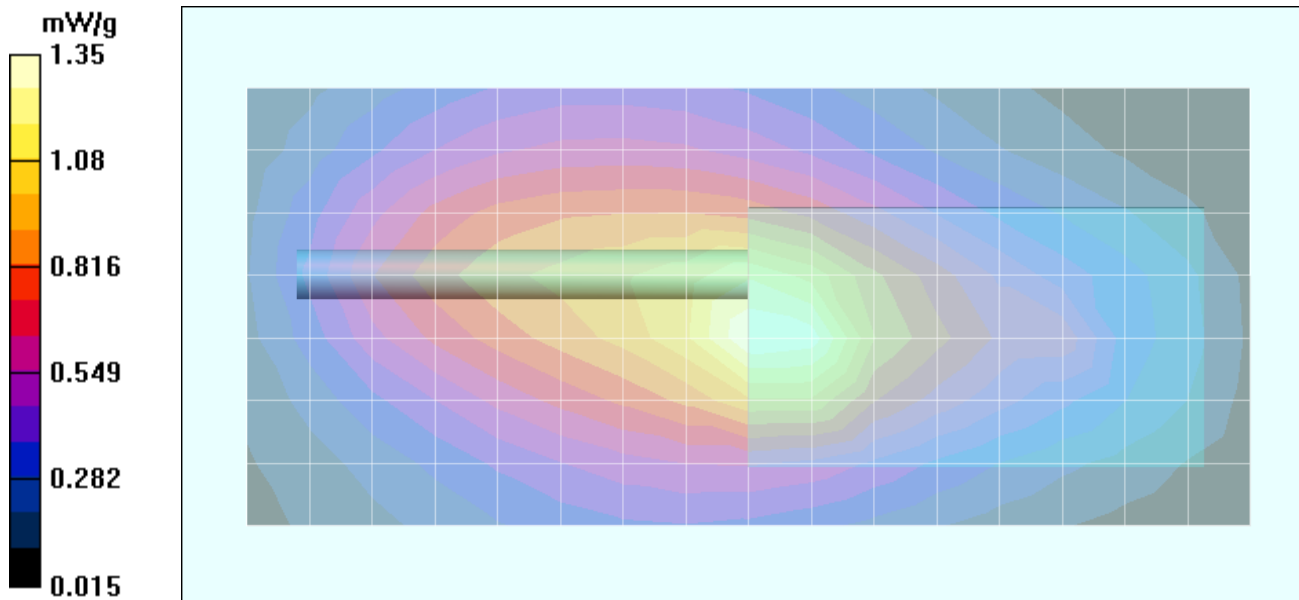
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASy4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x17x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 37.6 V/m; Power Drift = -0.00933 dB
 Peak SAR (extrapolated) = 2.7 W/kg
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.725 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/31/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-22M2)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

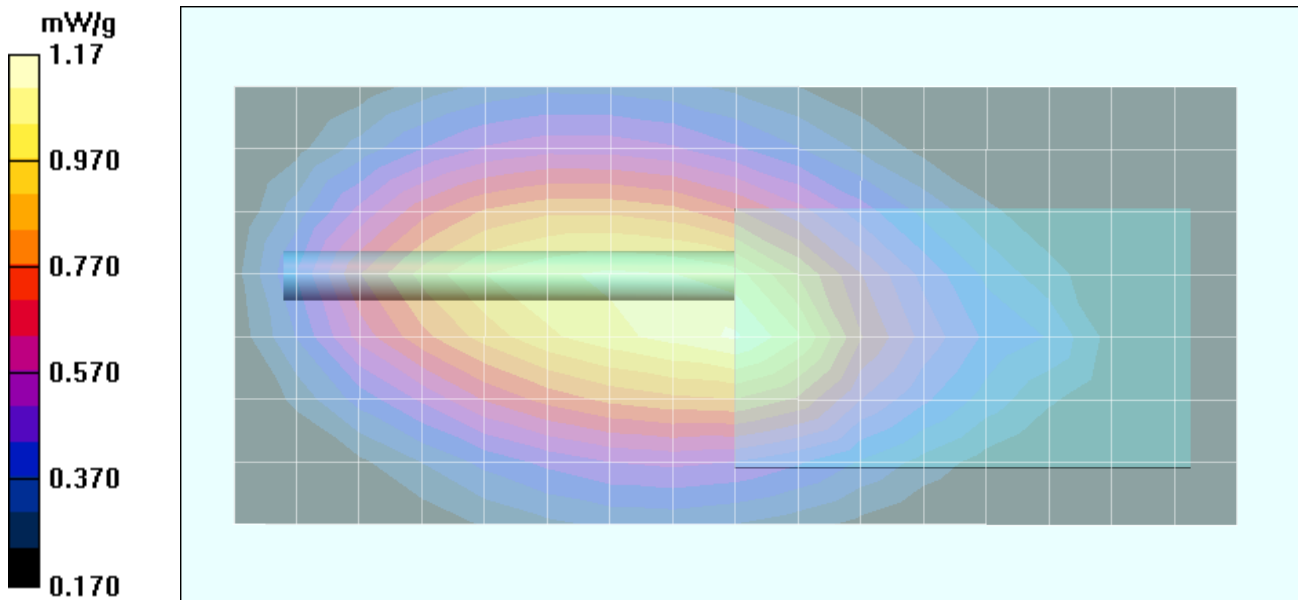
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 173.95 MHz; Duty Cycle: 1:1
 RF Output Power: 37.33 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 60.9$; $\rho = 1000 \text{ kg/m}^3$)

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

Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 41.3 V/m; Power Drift = -1.05 dB
 Peak SAR (extrapolated) = 2.06 W/kg
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.794 mW/g



Date Tested: 10/31/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.22 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

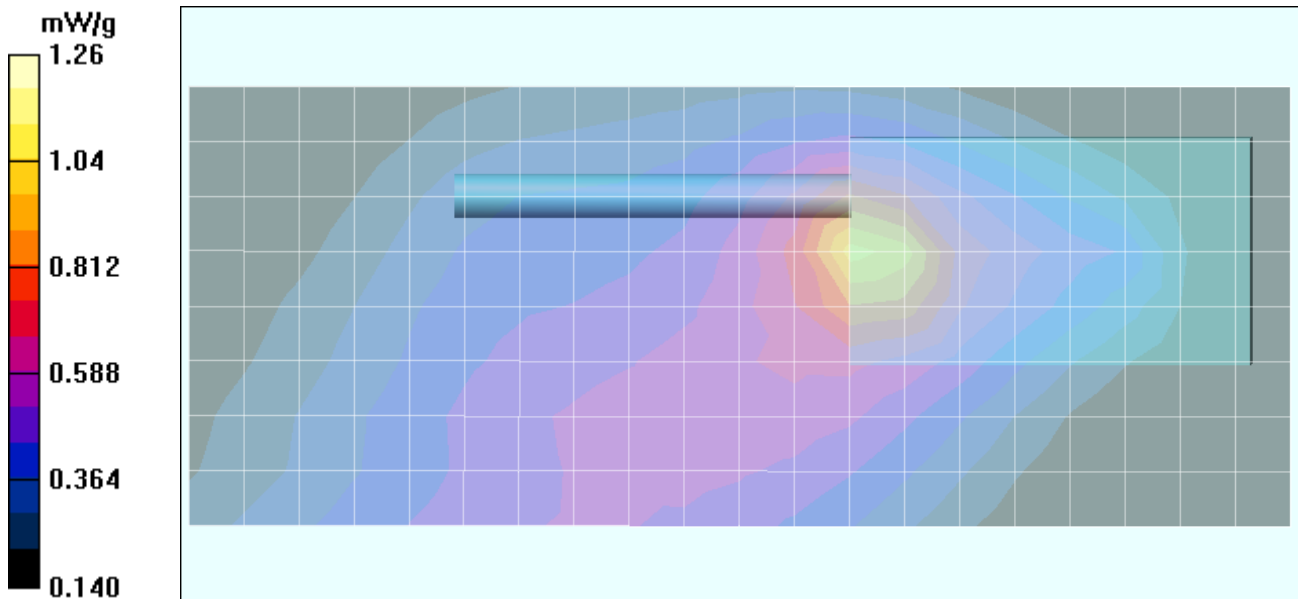
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 42.2 V/m; Power Drift = -1.18 dB
 Peak SAR (extrapolated) = 2.78 W/kg
SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.741 mW/g



Date Tested: 10/31/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

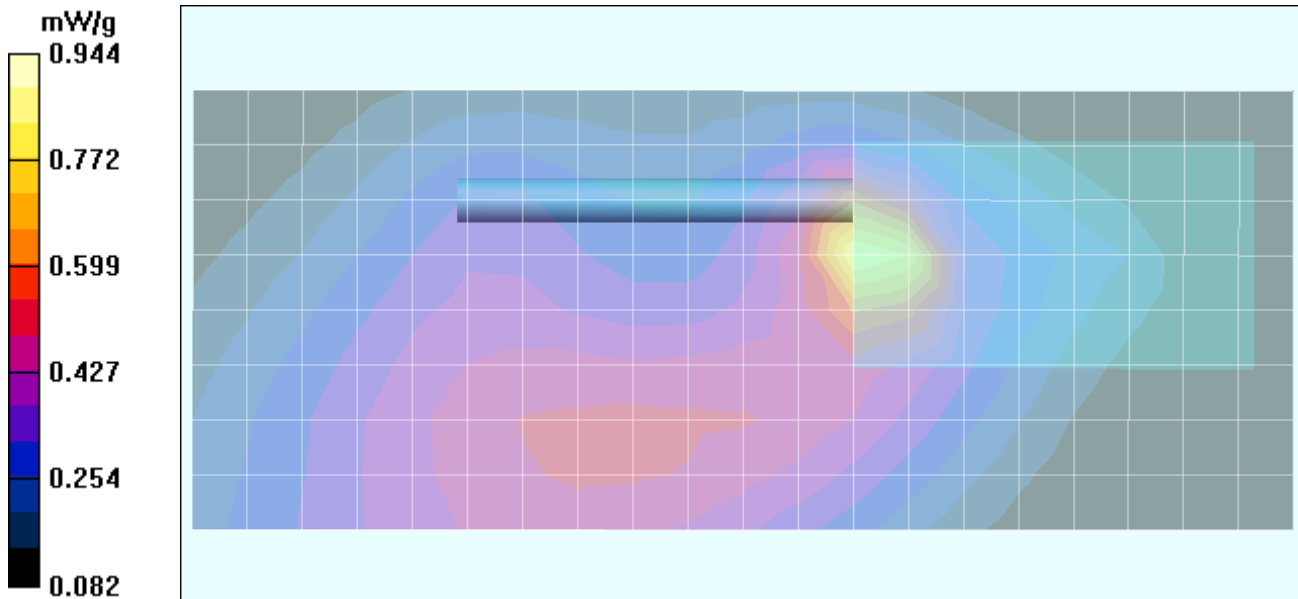
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.30 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 34.3 V/m; Power Drift = -0.380 dB
 Peak SAR (extrapolated) = 2.5 W/kg
SAR(1 g) = 0.924 mW/g; SAR(10 g) = 0.525 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/31/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.21 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

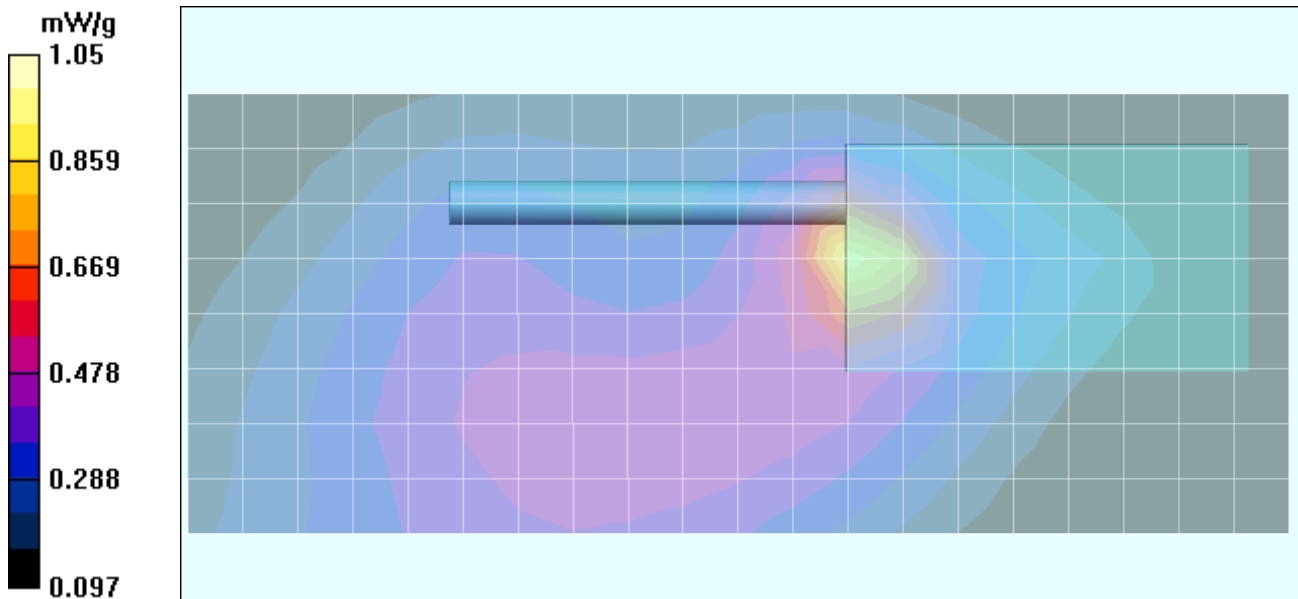
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 35.8 V/m; Power Drift = -0.447 dB
 Peak SAR (extrapolated) = 2.86 W/kg
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.589 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 10/31/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-22M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

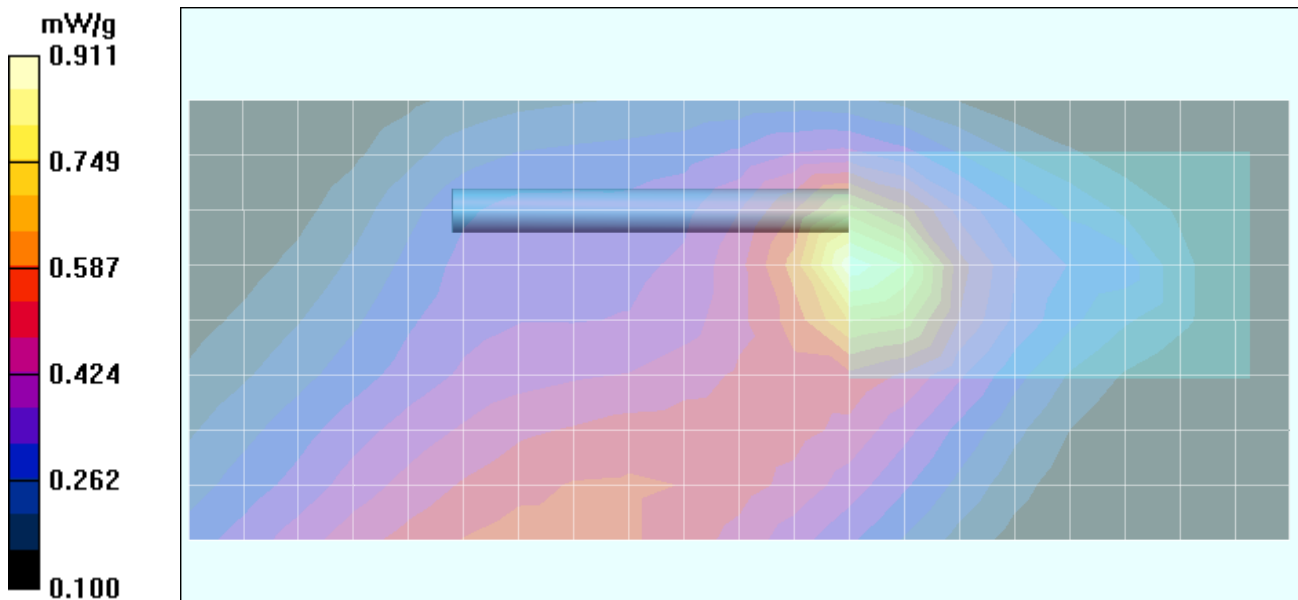
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.29 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.77$ mho/m; $\epsilon_r = 60.9$; $\rho = 1000$ kg/m³)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 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 = -0.658 dB
 Peak SAR (extrapolated) = 2.04 W/kg
SAR(1 g) = 0.890 mW/g; SAR(10 g) = 0.540 mW/g



Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 10/31/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-22M)

Body Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

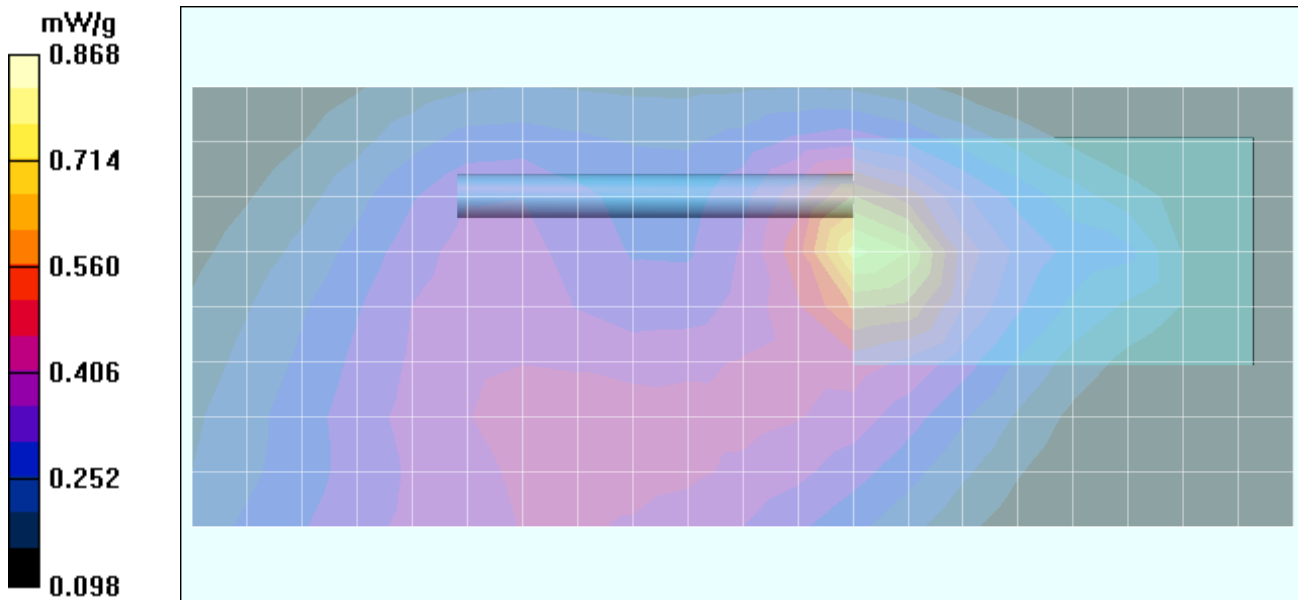
Ambient Temp: 23.0 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 103.0 kPa; Humidity: 31%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.28 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 60.9$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (9x21x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 34 V/m; Power Drift = -0.643 dB
 Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 0.861 mW/g; SAR(10 g) = 0.535 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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Date Tested: 11/24/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.19 dBm (Conducted)
 RF Output Power: 37.16 dBm (Conducted) 2nd Maximum
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30 V/m; Power Drift = -0.782 dB

Peak SAR (extrapolated) = 1.3 W/kg

SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.426 mW/g

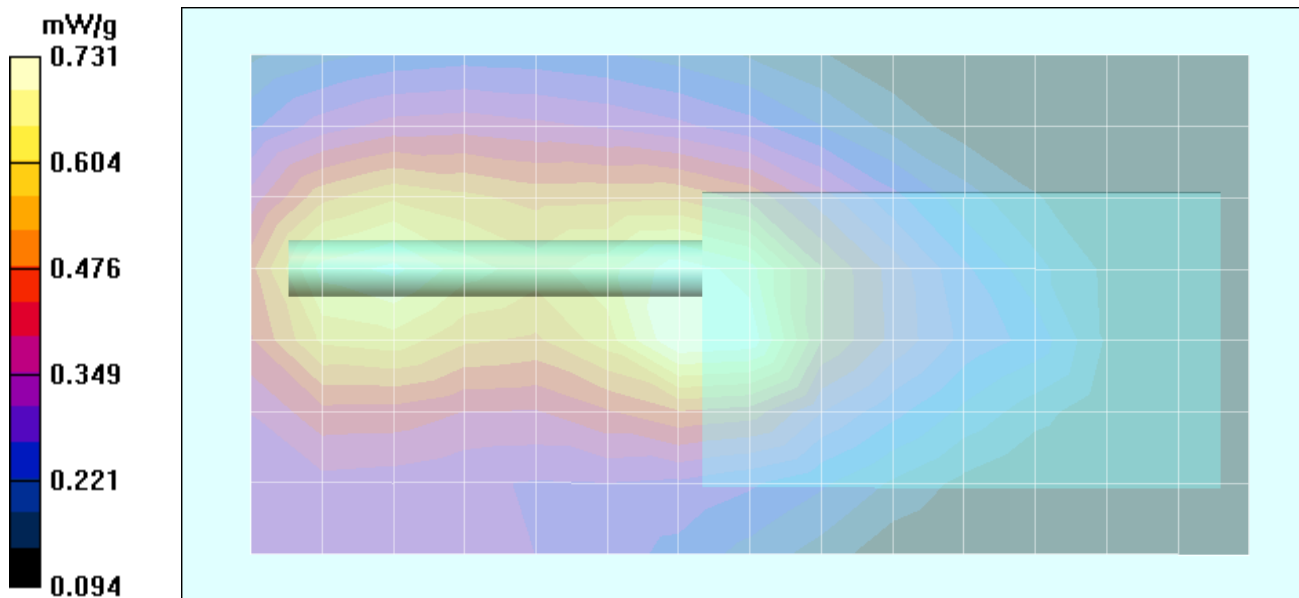
Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 34.9 V/m; Power Drift = -0.544 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.478 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 11/24/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.19 dBm (Conducted)
 RF Output Power: 37.18 dBm (Conducted) 2nd Maximum
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 25.1 V/m; Power Drift = -0.367 dB

Peak SAR (extrapolated) = 0.930 W/kg

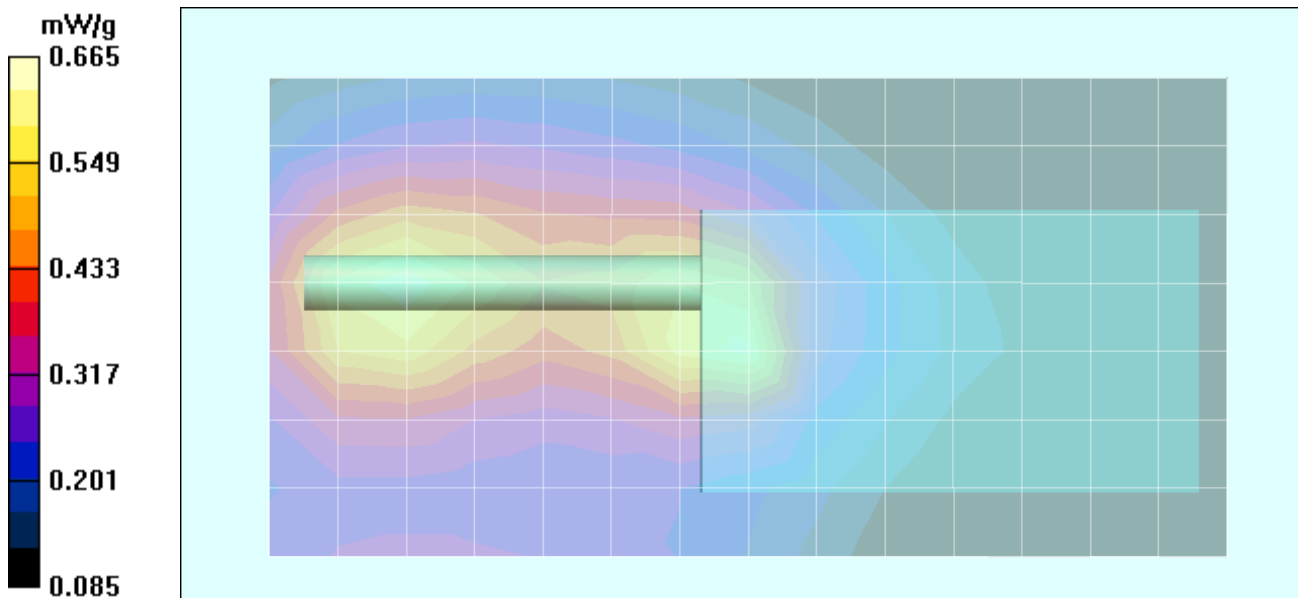
SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.309 mW/g

Body-Worn - 1.4 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 = 29.2 V/m; Power Drift = -0.0629 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.665 mW/g; SAR(10 g) = 0.424 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 11/24/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.18 dBm (Conducted)
 RF Output Power: 37.23 dBm (Conducted) 2nd Maximum
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.427 mW/g

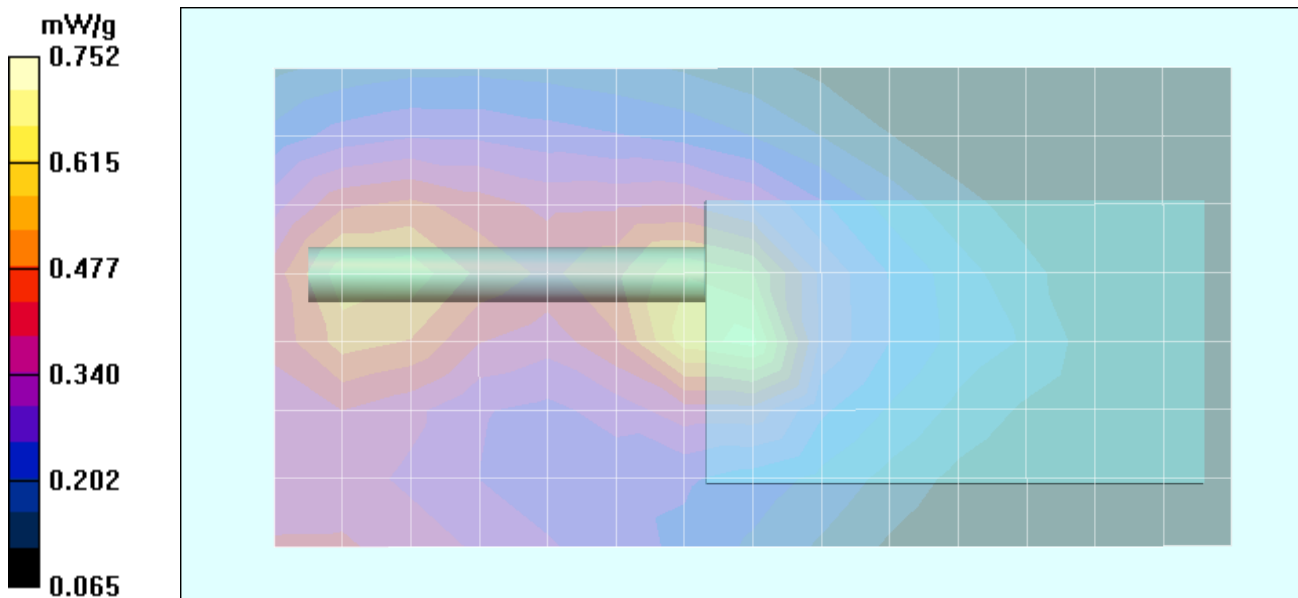
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.5 V/m; Power Drift = -0.235 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.467 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 11/24/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.24 dBm (Conducted)
 RF Output Power: 37.26 dBm (Conducted) 2nd Maximum
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 33.6 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.916 mW/g; SAR(10 g) = 0.609 mW/g

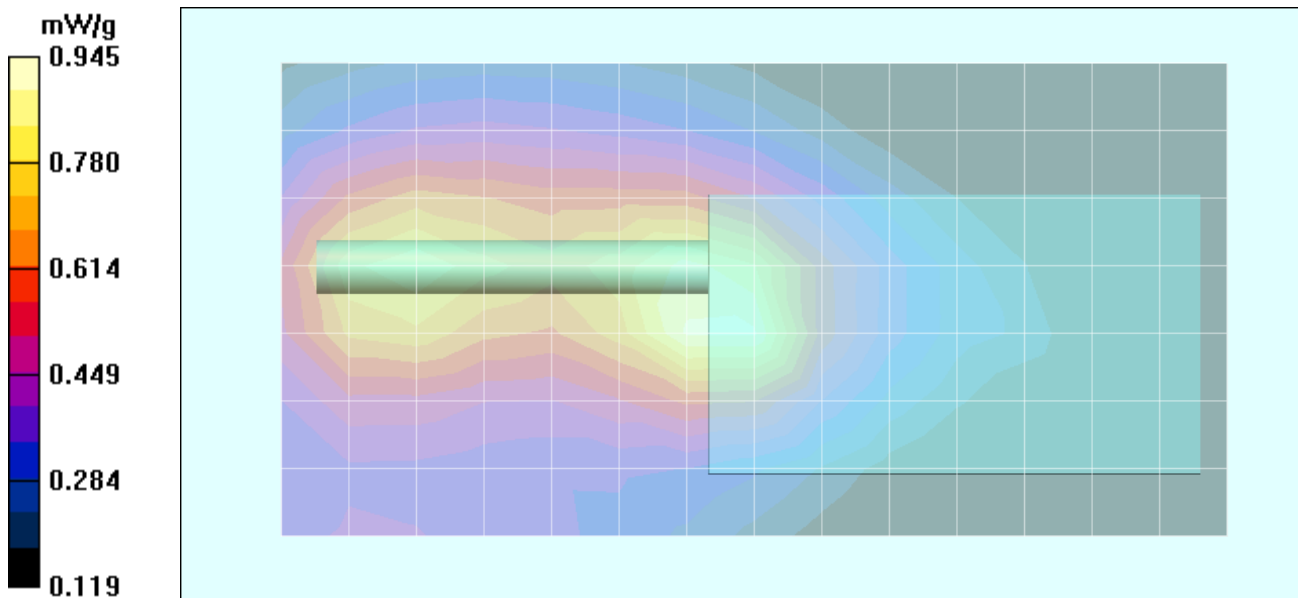
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 40.7 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.825 mW/g; SAR(10 g) = 0.548 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 11/24/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body Worn Accessories: Boom-Microphone Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.18 dBm (Conducted)
 RF Output Power: 37.21 dBm (Conducted) 2nd Maximum
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30 V/m; Power Drift = -0.205 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.454 mW/g

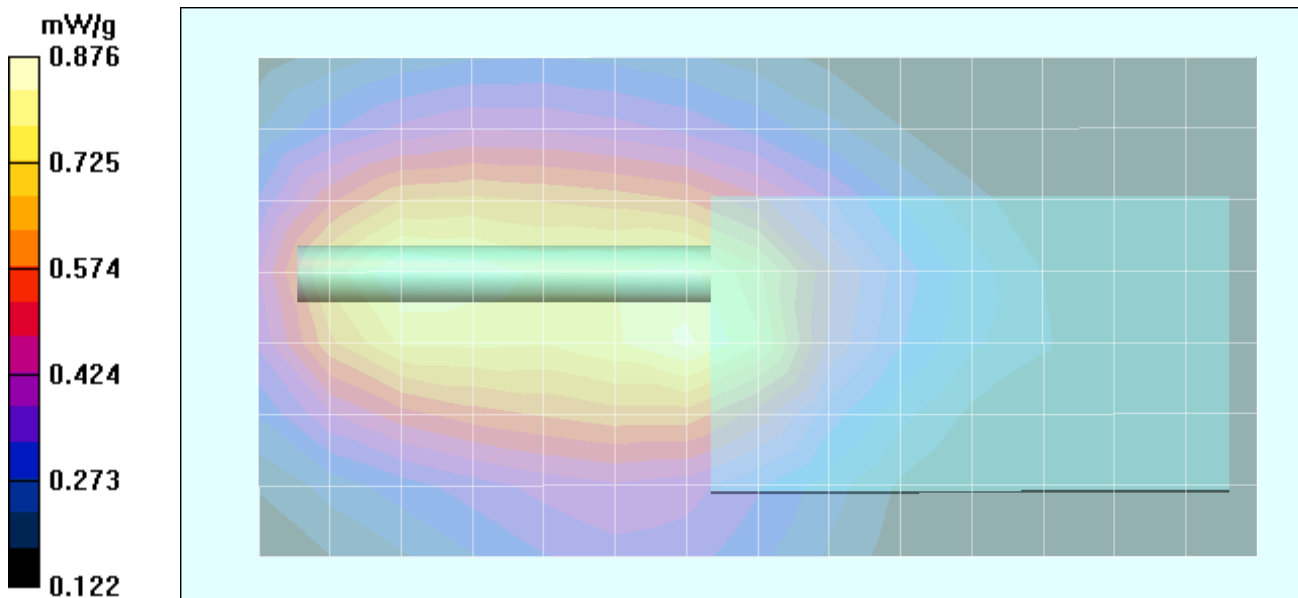
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.6 V/m; Power Drift = 0.537 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.598 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 11/24/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

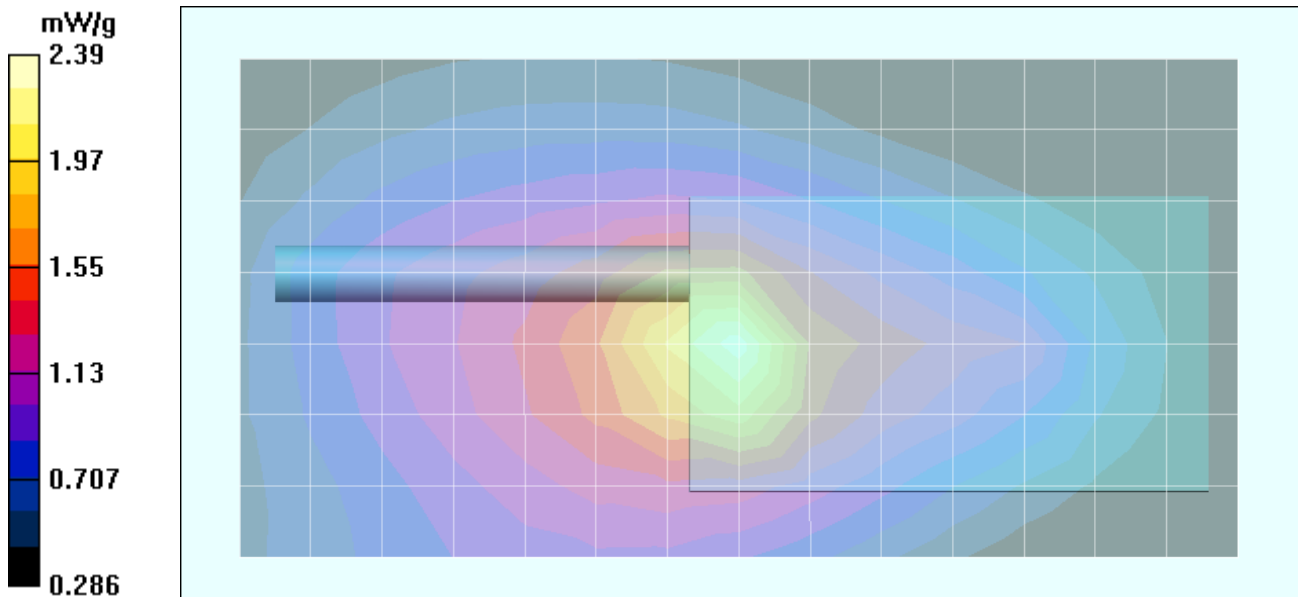
Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.21 dBm (Conducted)
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 57.9 V/m; Power Drift = -1.02 dB
 Peak SAR (extrapolated) = 4.9 W/kg
SAR(1 g) = 2.30 mW/g; SAR(10 g) = 1.46 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 11/24/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

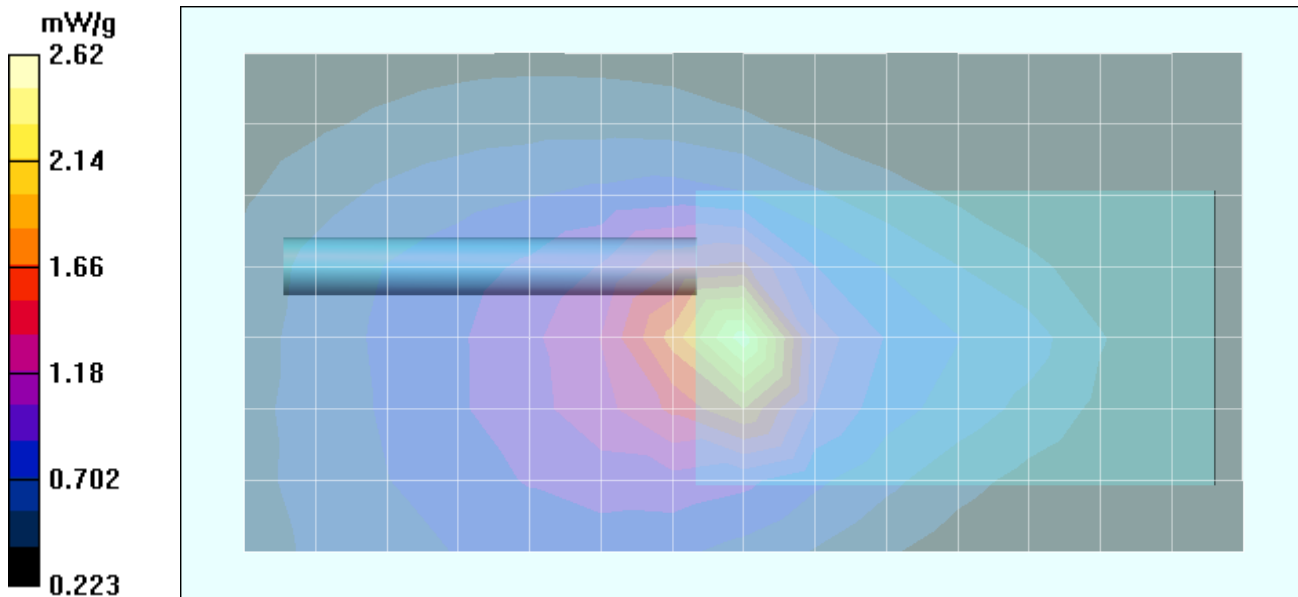
Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.23 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

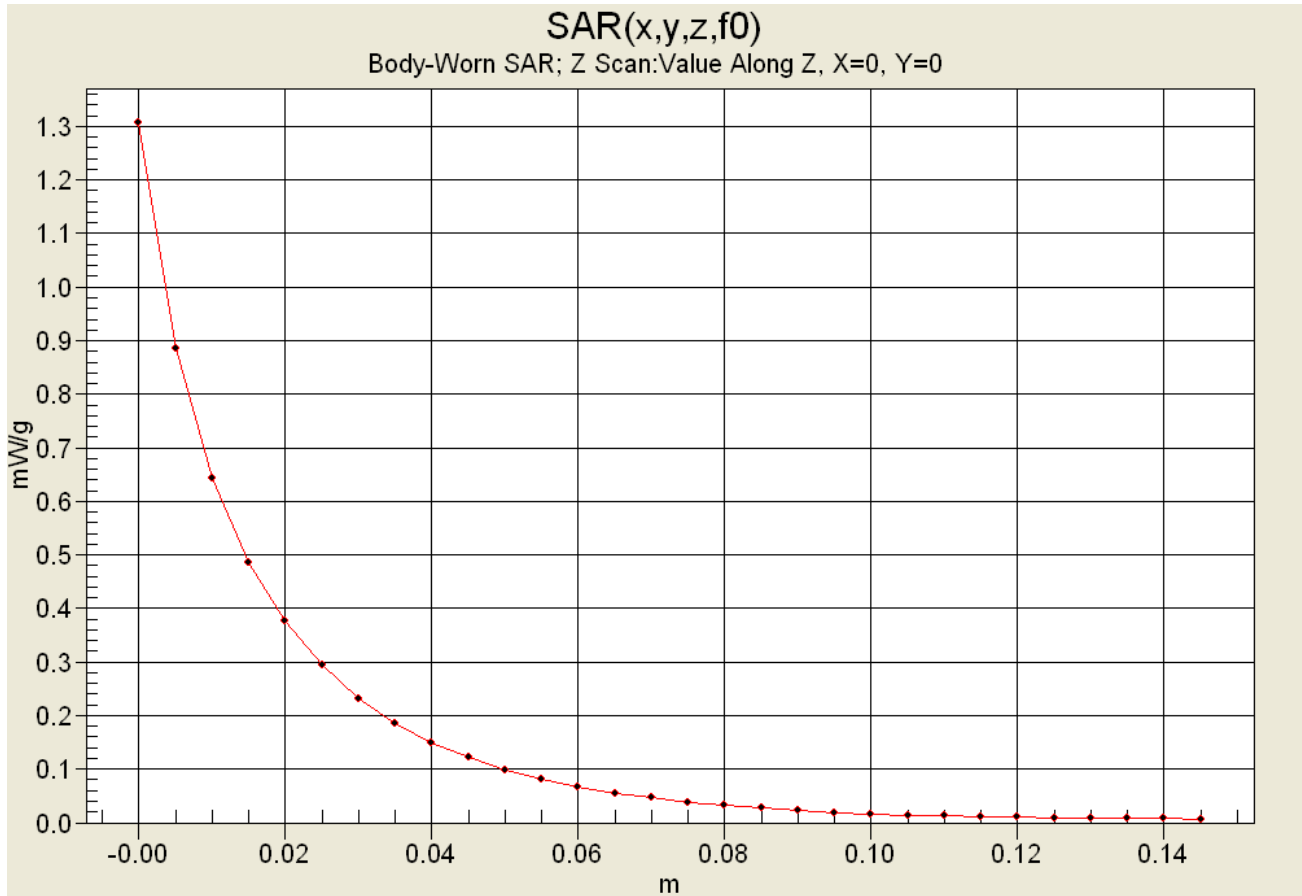
- Probe: ET3DV6 - SN1387; ConvF(8.7, 8.7, 8.7); Calibrated: 18/03/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASy4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 53.5 V/m; Power Drift = -0.183 dB
 Peak SAR (extrapolated) = 7.07 W/kg
SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.43 mW/g



Z-Axis Scan



Date Tested: 11/24/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

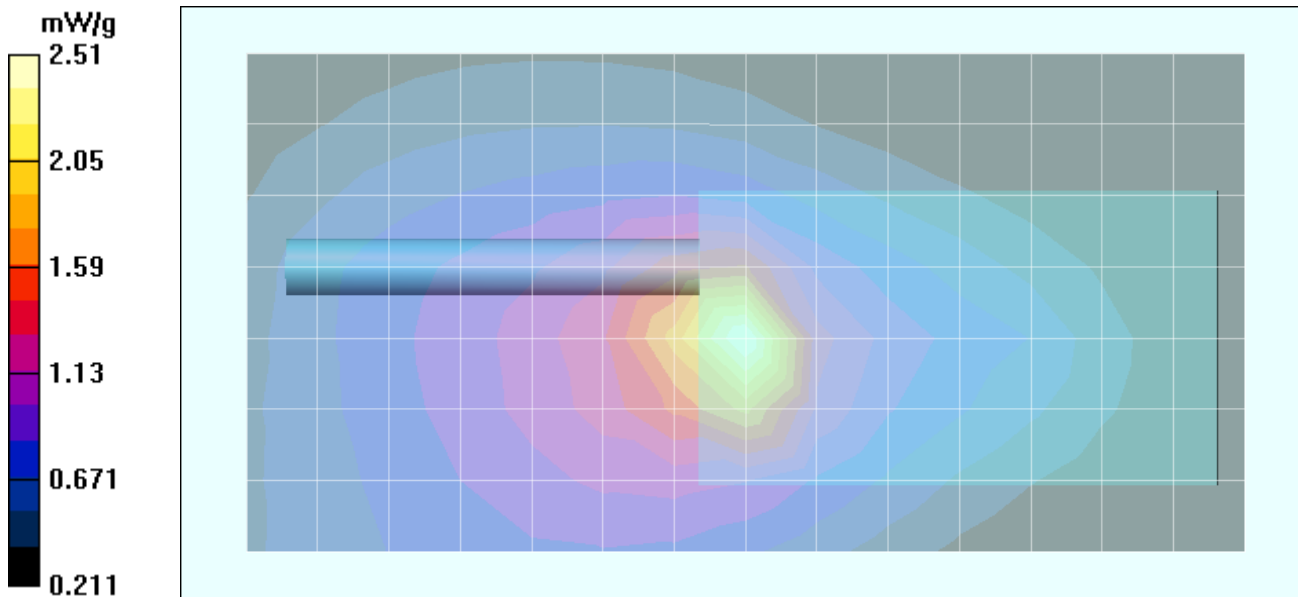
Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.15 dBm (Conducted)
 7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 52.5 V/m; Power Drift = -0.295 dB
 Peak SAR (extrapolated) = 6.71 W/kg
SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.38 mW/g



Date Tested: 11/24/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

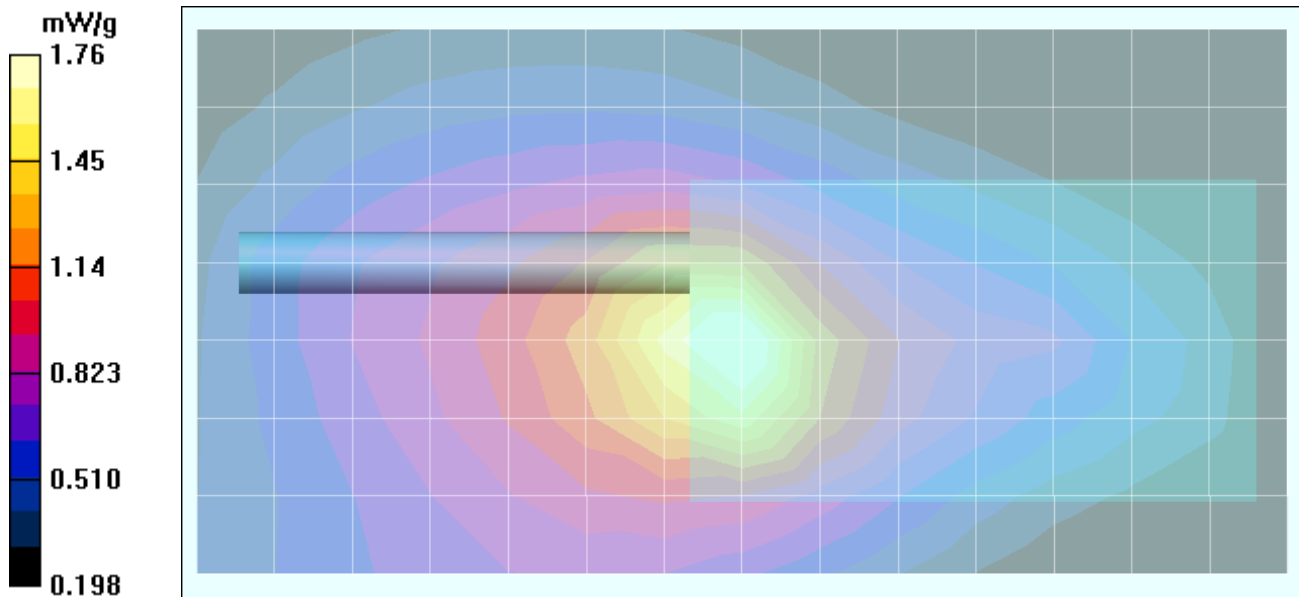
Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.24 dBm (Conducted)
 7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 46.9 V/m; Power Drift = -0.525 dB
 Peak SAR (extrapolated) = 3.77 W/kg
SAR(1 g) = 1.70 mW/g; SAR(10 g) = 1.05 mW/g



Date Tested: 11/24/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

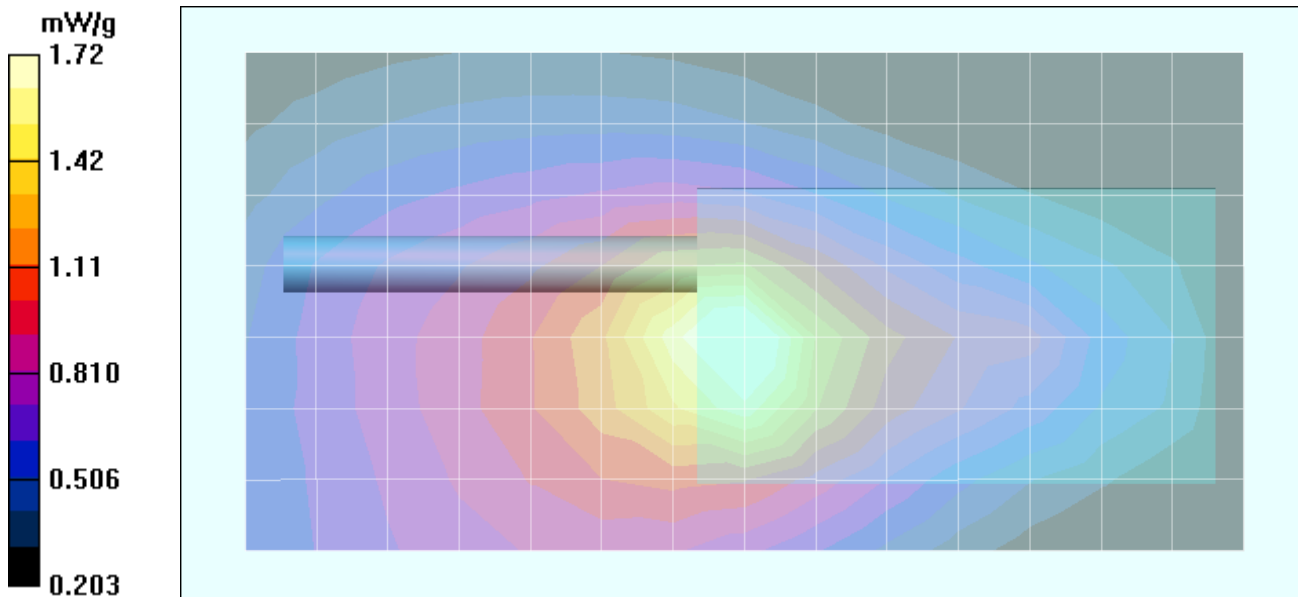
Ambient Temp: 24.0 °C; Fluid Temp: 21.7 °C; Barometric Pressure: 101.3 kPa; Humidity: 35%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.25 dBm (Conducted)
 7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)
 Medium: M150 ($\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 61.7$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 48.2 V/m; Power Drift = -0.586 dB
 Peak SAR (extrapolated) = 3.65 W/kg
SAR(1 g) = 1.70 mW/g; SAR(10 g) = 1.08 mW/g



Date Tested: 11/25/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-16M3)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.8 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.0 kPa; Humidity: 37%

Communication System: FM VHF
 Frequency: 136.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.23 dBm (Conducted)
 RF Output Power: 37.22 dBm (Conducted) 2nd Maximum
 9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.81 \text{ mho/m}$; $\epsilon_r = 61.6$; $\rho = 1000 \text{ kg/m}^3$)

- 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 - 1.0 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 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 V/m; Power Drift = -1.40 dB

Peak SAR (extrapolated) = 3.34 W/kg

SAR(1 g) = 1.61 mW/g; SAR(10 g) = 1.05 mW/g

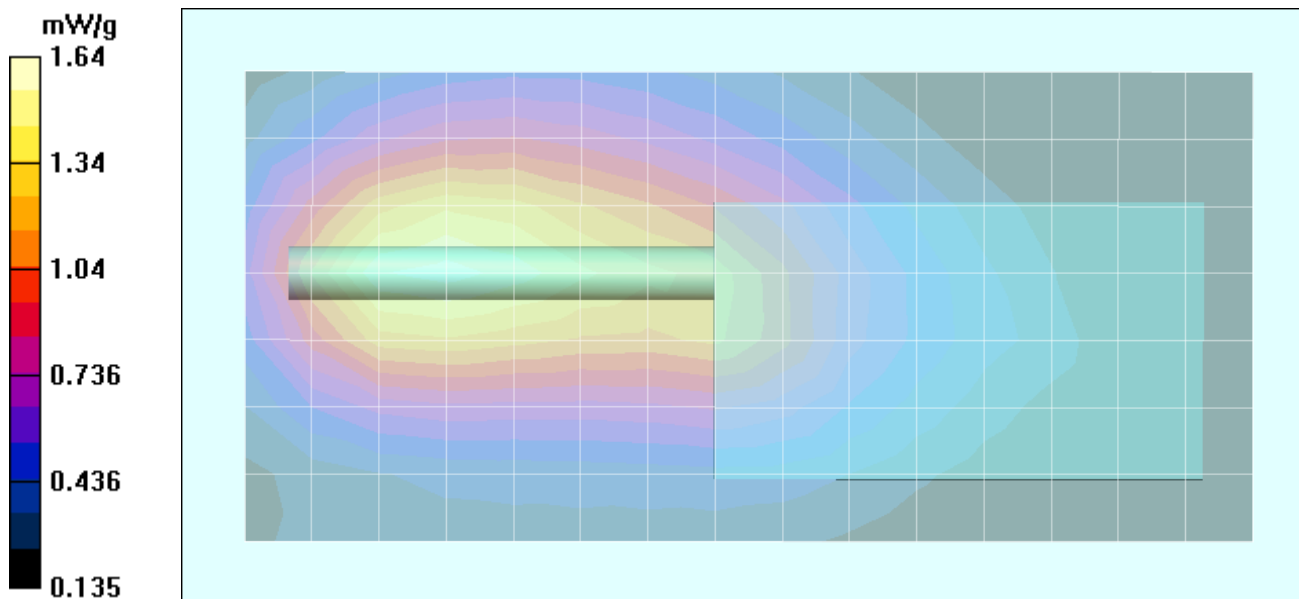
Body-Worn - 1.0 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 42.3 V/m; Power Drift = -1.58 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.20 mW/g; SAR(10 g) = 0.847 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Date Tested: 11/25/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-16M2)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.8 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.0 kPa; Humidity: 37%

Communication System: FM VHF

Frequency: 173.95 MHz; Duty Cycle: 1:1

RF Output Power: 37.17 dBm (Conducted)

RF Output Power: 37.16 dBm (Conducted) 2nd Maximum

RF Output Power: 37.15 dBm (Conducted) 3rd Maximum

9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)

Medium: M150 ($\sigma = 0.81$ mho/m; $\epsilon_r = 61.6$; $\rho = 1000$ kg/m³)

- 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 - 1.0 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x15x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.8 V/m; Power Drift = -1.60 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.795 mW/g

Body-Worn - 1.0 cm Belt-Clip Separation Distance - High Channel/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.4 V/m; Power Drift = -1.65 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.841 mW/g

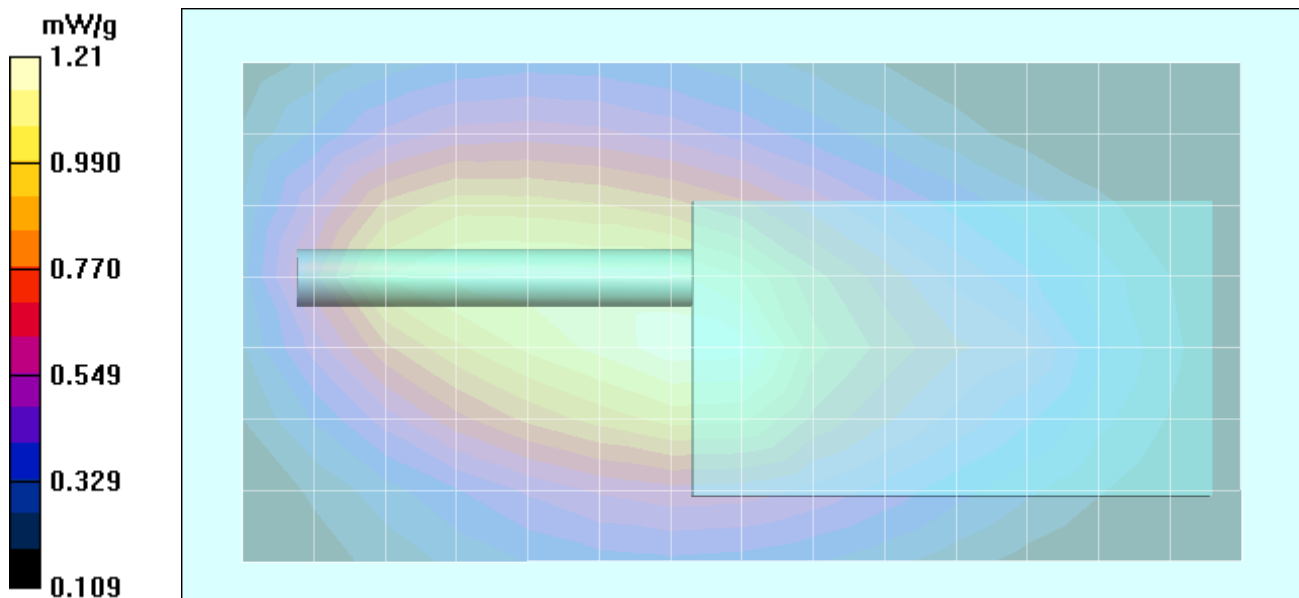
Body-Worn - 1.0 cm Belt-Clip Separation Distance - High Channel/Zoom Scan 3 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.1 V/m; Power Drift = -1.74 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.760 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Test Report S/N:	101204ALH-F570-S90V
Test Date(s):	October 26-31, November 24-25, 2004
Test Type:	FCC/IC SAR Evaluation

Date Tested: 11/25/04

Body-Worn SAR - Energizer Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-16M)

DUT: Kenwood Model: TK-2170-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 1S-V1-22

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

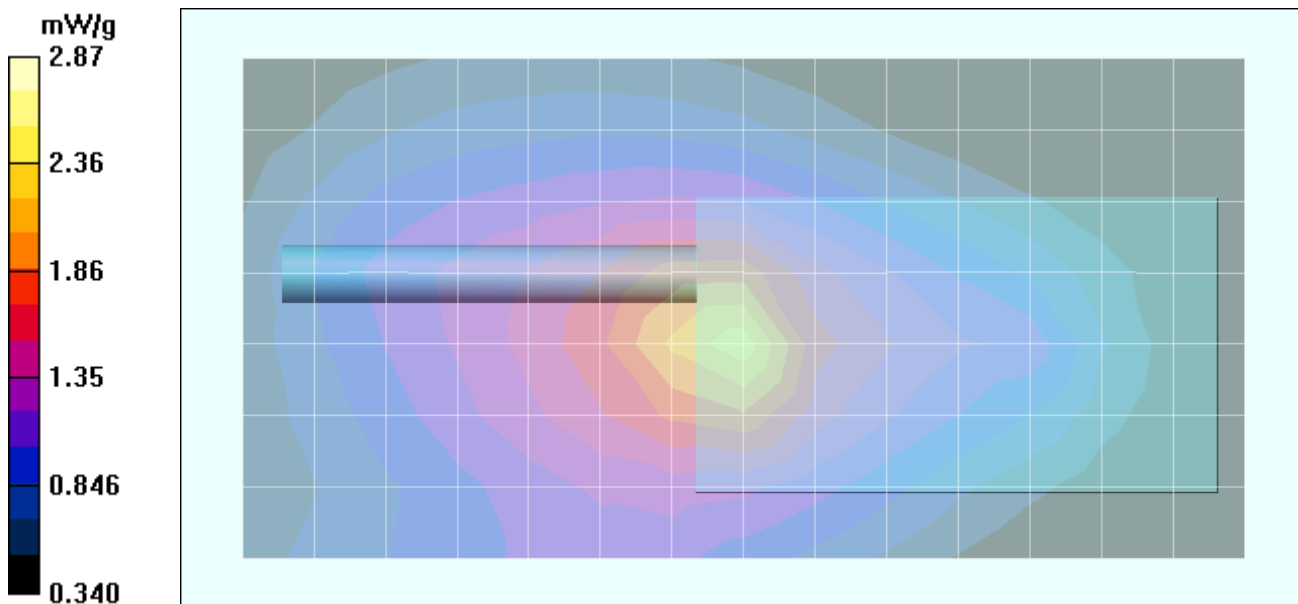
Ambient Temp: 23.8 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.0 kPa; Humidity: 37%

Communication System: FM VHF
 Frequency: 155.05 MHz; Duty Cycle: 1:1
 RF Output Power: 37.18 dBm (Conducted)
 9V AA Alkaline Energizer E91 Battery Pack (Battery Case P/N: KBP-5)
 Medium: M150 ($\sigma = 0.81 \text{ mho/m}$; $\epsilon_r = 61.6$; $\rho = 1000 \text{ kg/m}^3$)

- 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: DAS4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

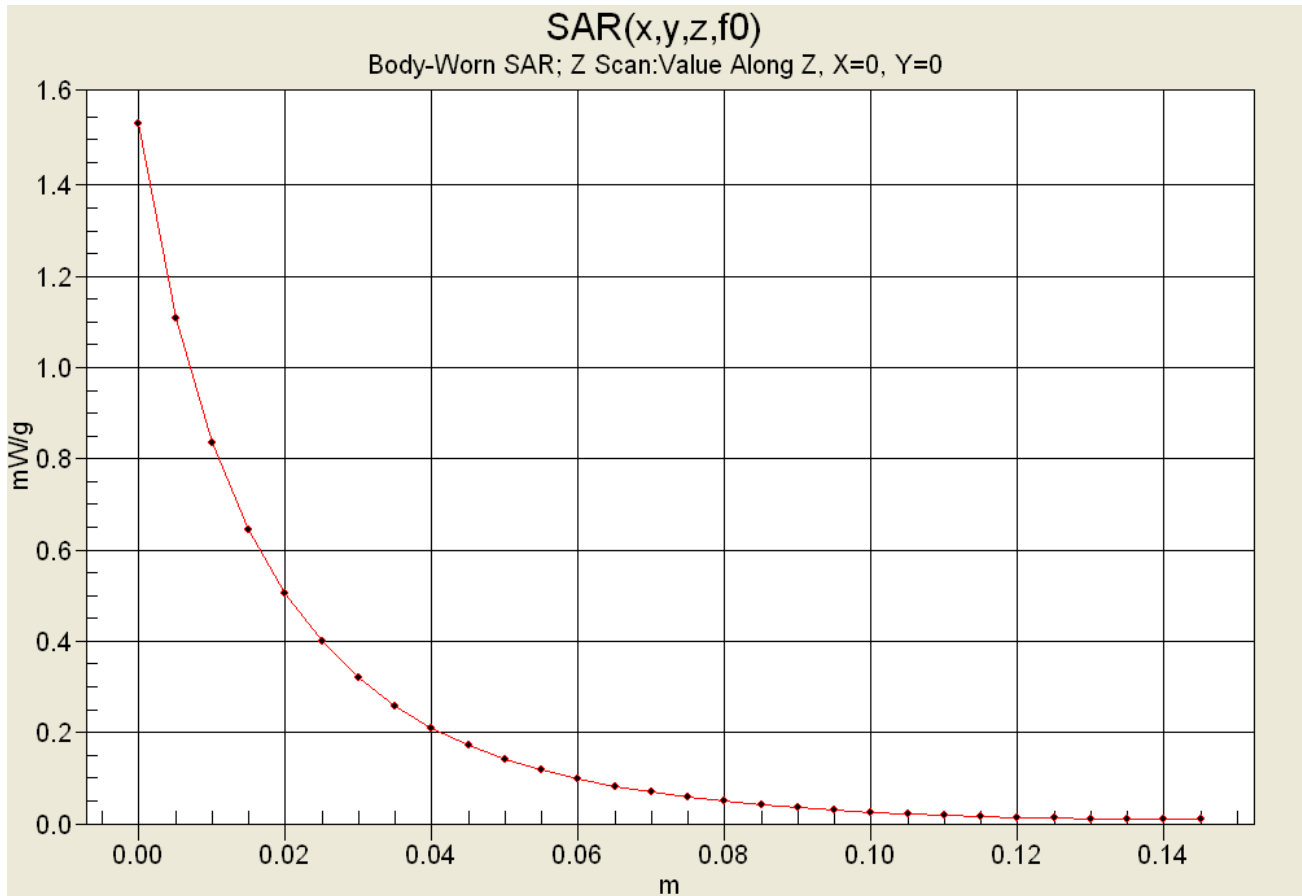
Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x15x1):
 Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 62.3 V/m; Power Drift = -1.04 dB
 Peak SAR (extrapolated) = 5.74 W/kg
SAR(1 g) = 2.75 mW/g; SAR(10 g) = 1.76 mW/g



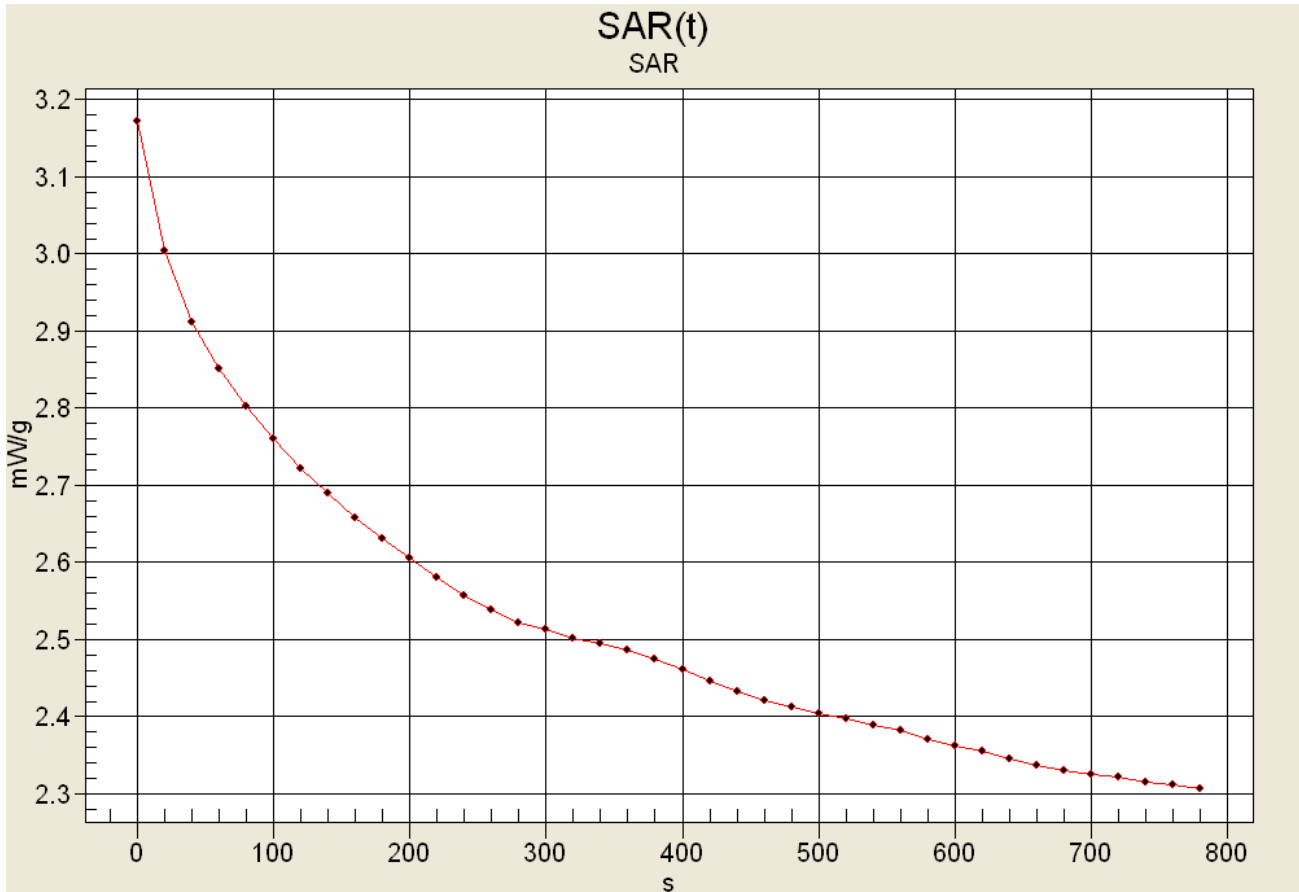
Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver		136 - 174 MHz	KENWOOD
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Z-Axis Scan



SAR-versus-Time Power Drift Evaluation

DUT with Speaker-Microphone and Belt-Clip accessories
 Energizer E91 Alkaline Battery Pack (P/N: KBP-5)
 Stubby Antenna - KRA-16M
 Mid Channel - 155.05 MHz



High SAR: 3.1718 mW/g
 Low SAR: 2.30696 mW/g (-1.383 dB)
 SAR after 340s: 2.49418 mW/g (-1.044 dB)
 (340s = Zoom Scan Duration)
 (780s = Area Scan Duration)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH34703110	IC ID:	282D-34703110
Model:	TK-2170-K / TK-2170-K2	Portable FM VHF PTT Radio Transceiver	136 - 174 MHz	KENWOOD	
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