


	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Face SAR Plot F1

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.943 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

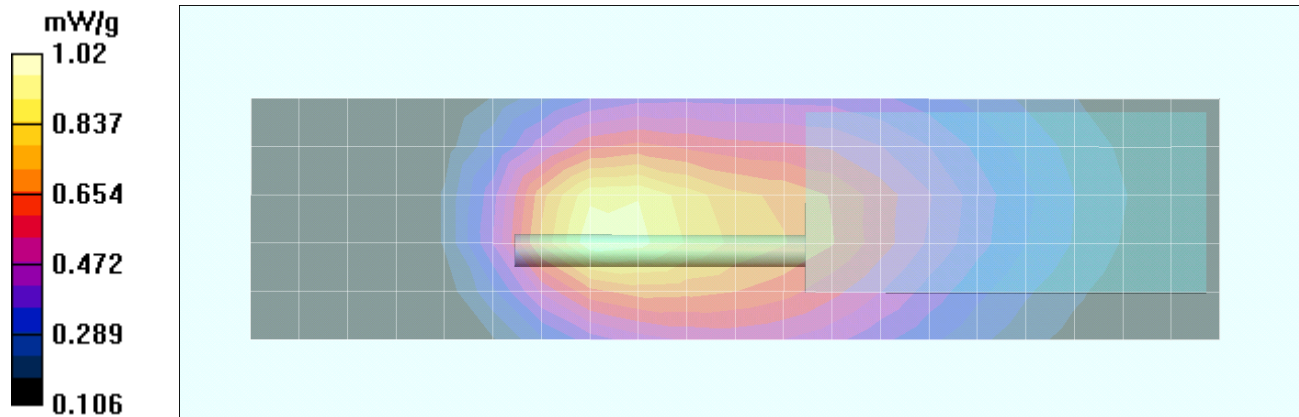
Reference Value = 30.1 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 2.24 W/kg



SAR(1 g) = 1 mW/g; SAR(10 g) = 0.649 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.02 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Face SAR Plot F2

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 167.7 \text{ MHz}$; $\sigma = 0.781 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.38 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

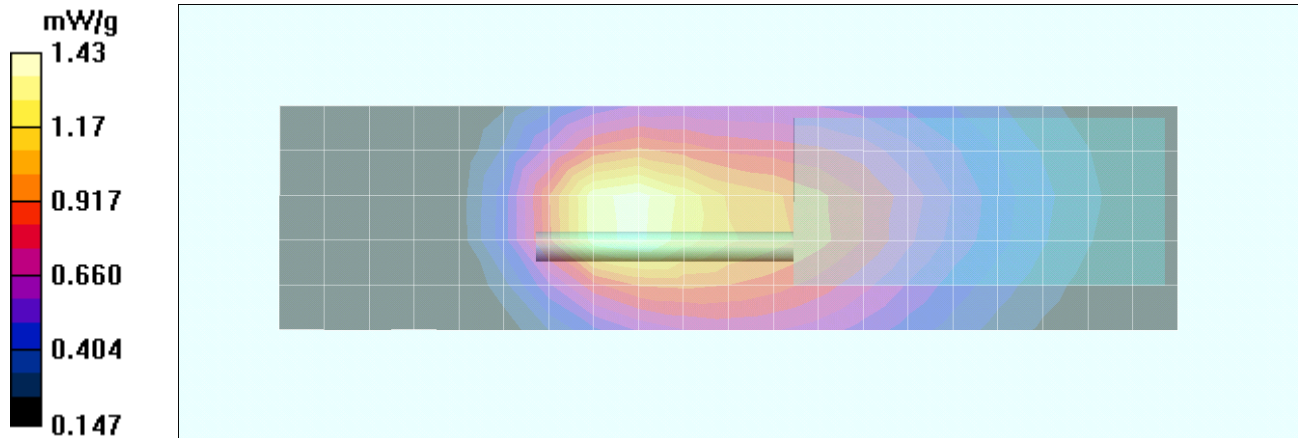
Reference Value = 35.6 V/m; Power Drift = -0.128 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.912 mW/g

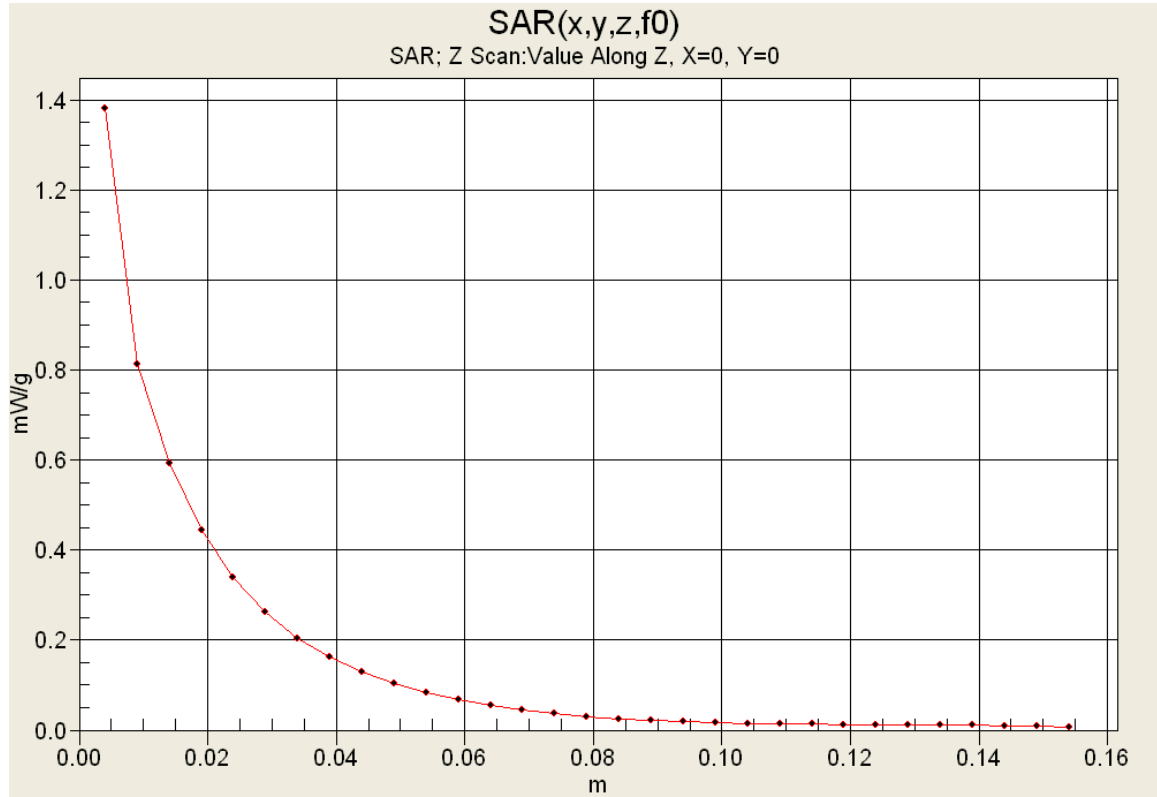
Info: Interpolated medium parameters used for SAR evaluation.



Maximum value of SAR (measured) = 1.43 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Z-Axis Scan



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Face SAR Plot F3

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.488 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

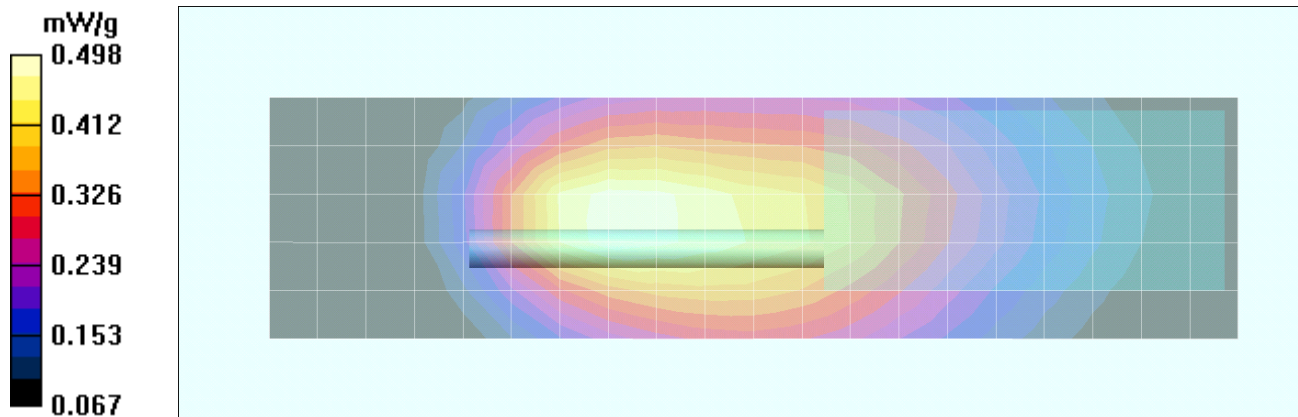
Reference Value = 23.8 V/m; Power Drift = -0.355 dB

Peak SAR (extrapolated) = 1.06 W/kg



SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.338 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.498 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Face SAR Plot F4

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 167.7 \text{ MHz}$; $\sigma = 0.765 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.629 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

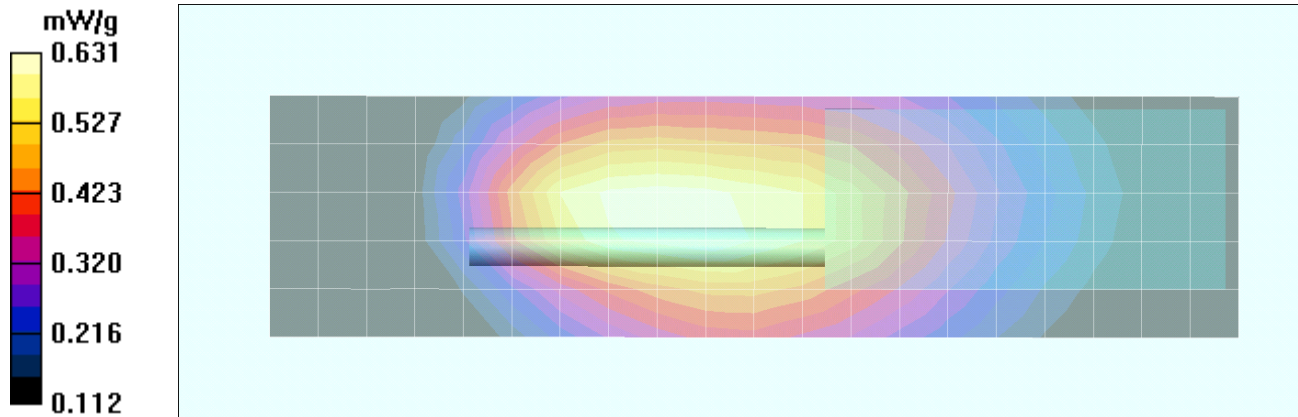
Reference Value = 27.9 V/m; Power Drift = -0.401 dB

Peak SAR (extrapolated) = 0.998 W/kg



SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.440 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.631 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Face SAR Plot F5

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.49 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

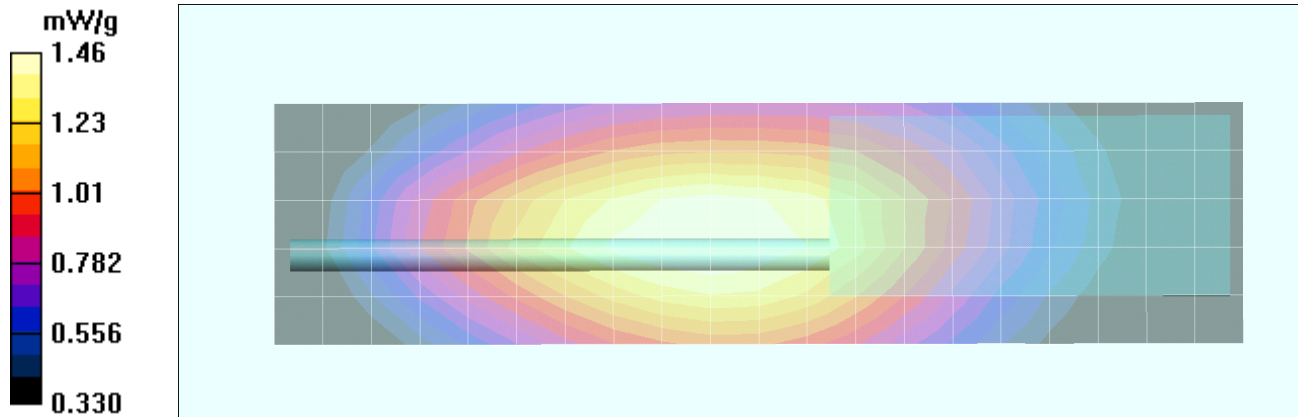
Reference Value = 42.4 V/m; Power Drift = -0.201 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.42 mW/g; SAR(10 g) = 1.07 mW/g

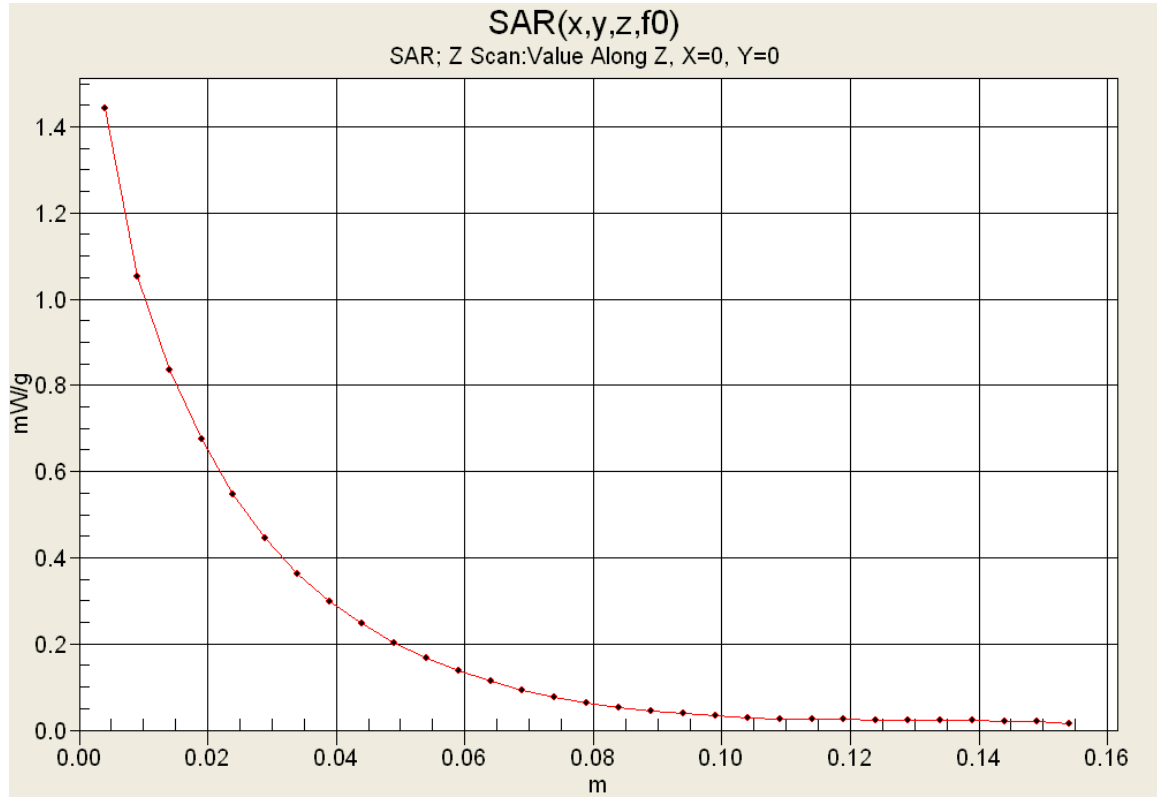
Info: Interpolated medium parameters used for SAR evaluation.



Maximum value of SAR (measured) = 1.46 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K		TK-2400-K2	
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Z-Axis Scan



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Face SAR Plot F6

Date Tested: 08/24/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 167.7 \text{ MHz}$; $\sigma = 0.765 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.18 mW/g

/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

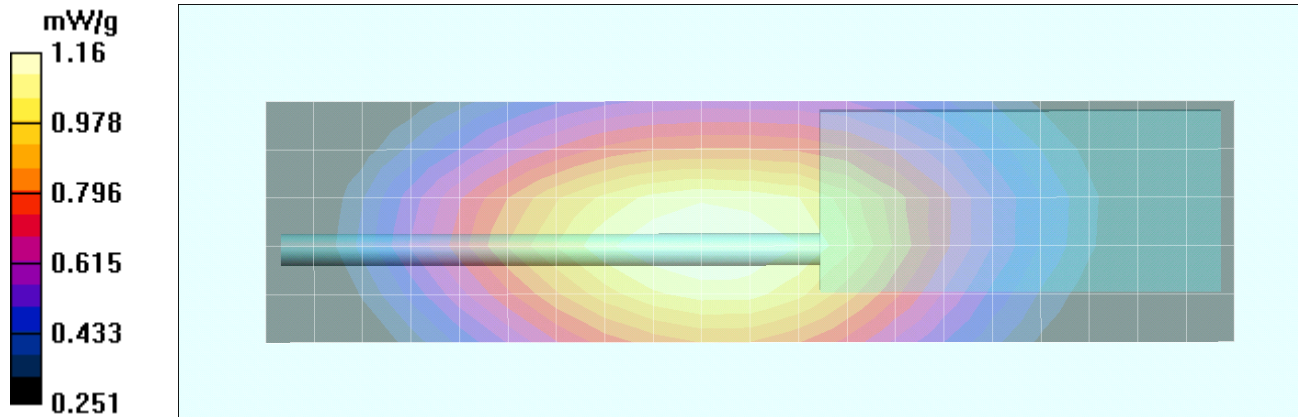
Reference Value = 37.4 V/m; Power Drift = -0.386 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.836 mW/g

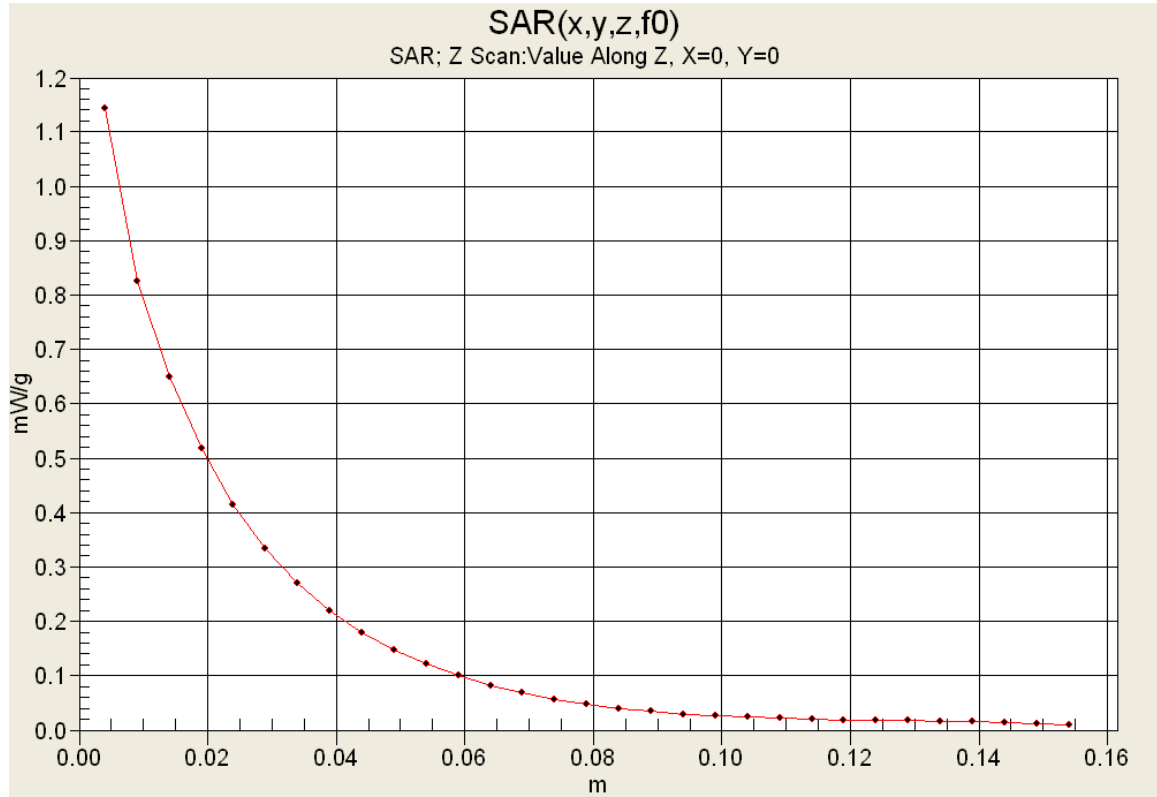
Info: Interpolated medium parameters used for SAR evaluation.



Maximum value of SAR (measured) = 1.16 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Z-Axis Scan



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Face SAR Plot F7

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.773 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.01 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

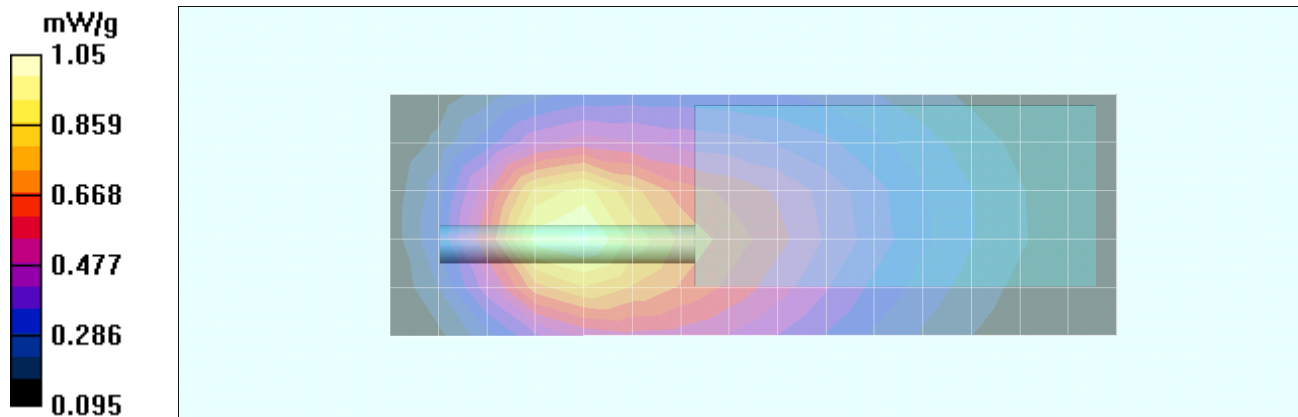
Reference Value = 28.5 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 2.39 W/kg



SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.663 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.05 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Face SAR Plot F8

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 167.7 \text{ MHz}$; $\sigma = 0.795 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.45 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

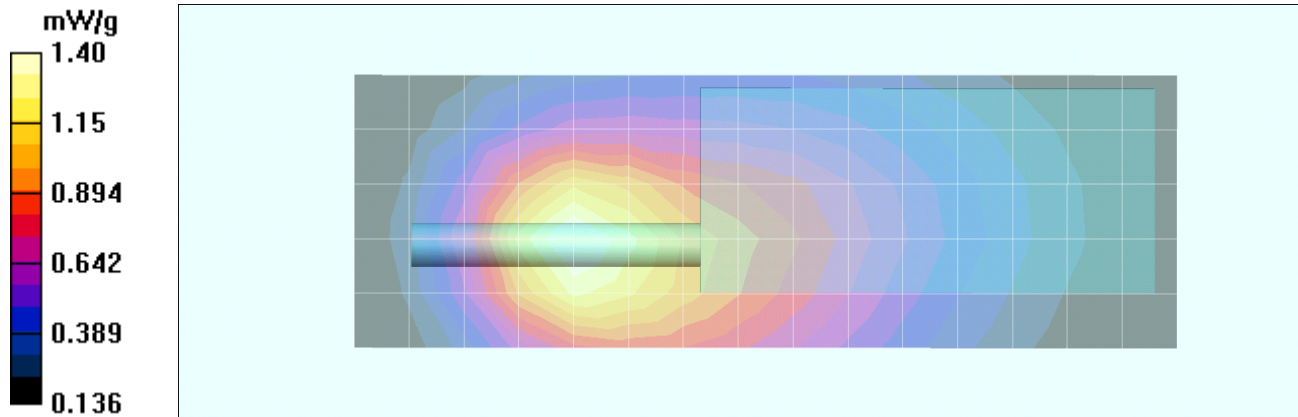
Reference Value = 33.7 V/m; Power Drift = -0.344 dB

Peak SAR (extrapolated) = 3.10 W/kg



SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.889 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.40 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Face SAR Plot F9

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.754 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.46 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

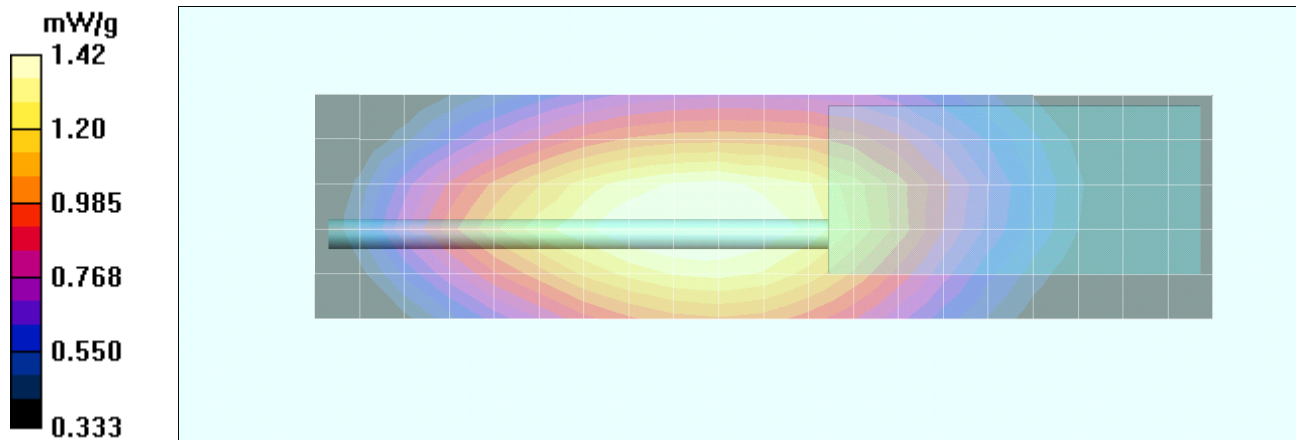
Reference Value = 41.1 V/m; Power Drift = -0.301 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.37 mW/g; SAR(10 g) = 1.04 mW/g

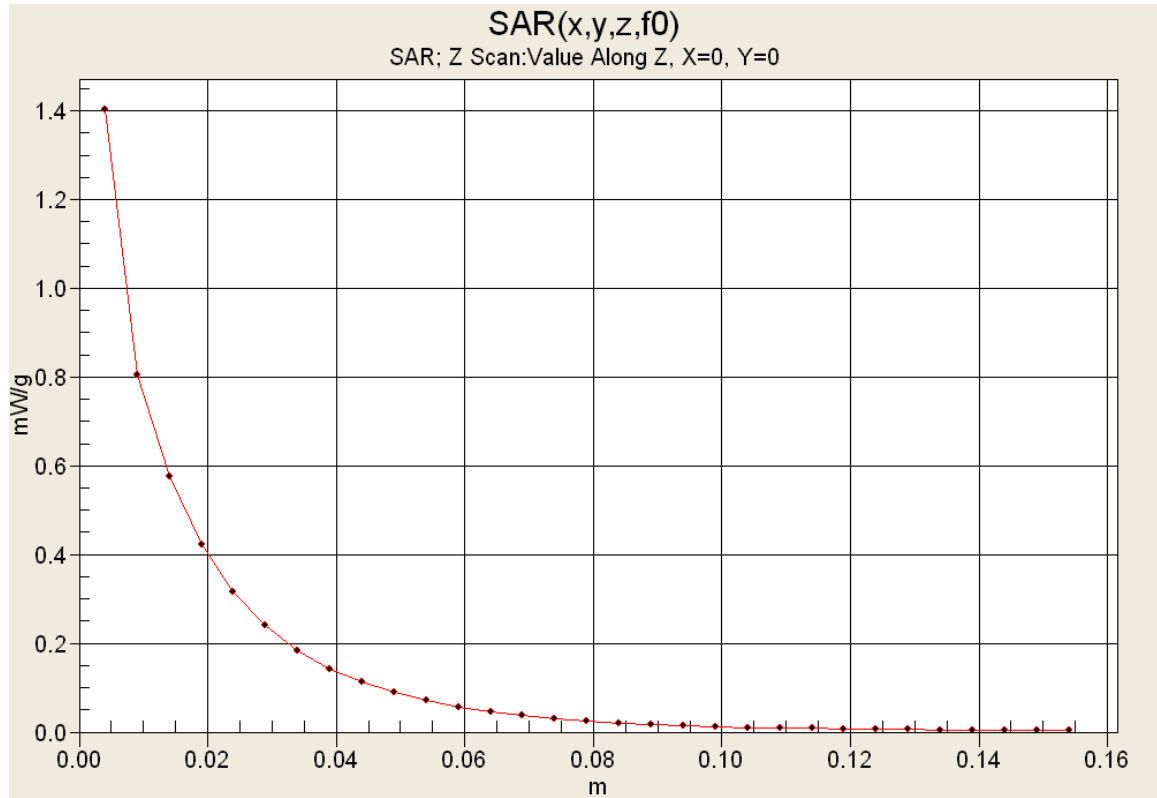
Info: Interpolated medium parameters used for SAR evaluation.



Maximum value of SAR (measured) = 1.42 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B1

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4$ MHz; $\sigma = 0.75$ mho/m; $\epsilon_r = 64.1$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.32 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

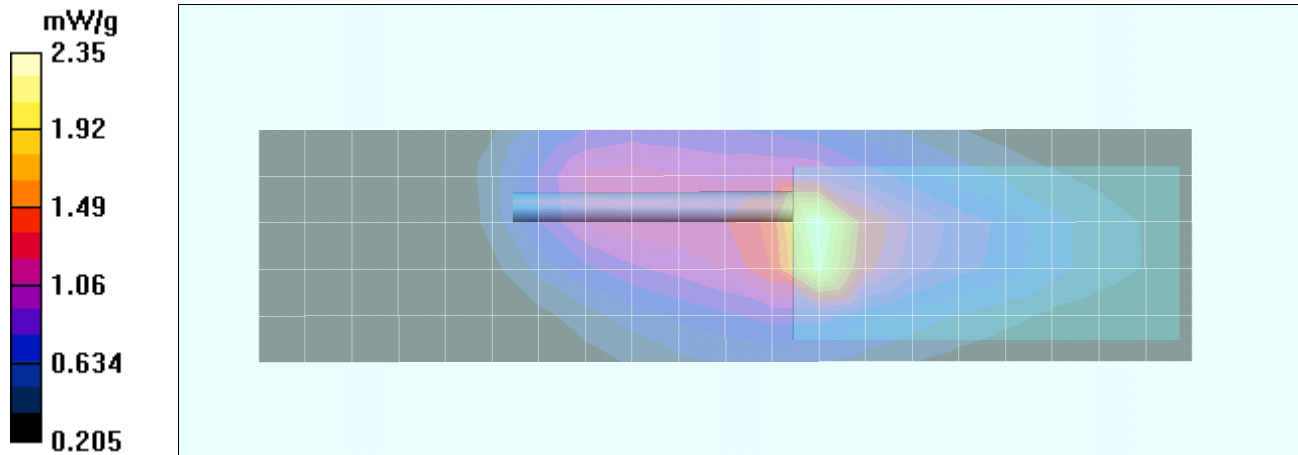
Reference Value = 47.9 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 6.73 W/kg



SAR(1 g) = 2.23 mW/g; SAR(10 g) = 1.2 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.35 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B2

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 167.7$ MHz; $\sigma = 0.788$ mho/m; $\epsilon_r = 61.5$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.62 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

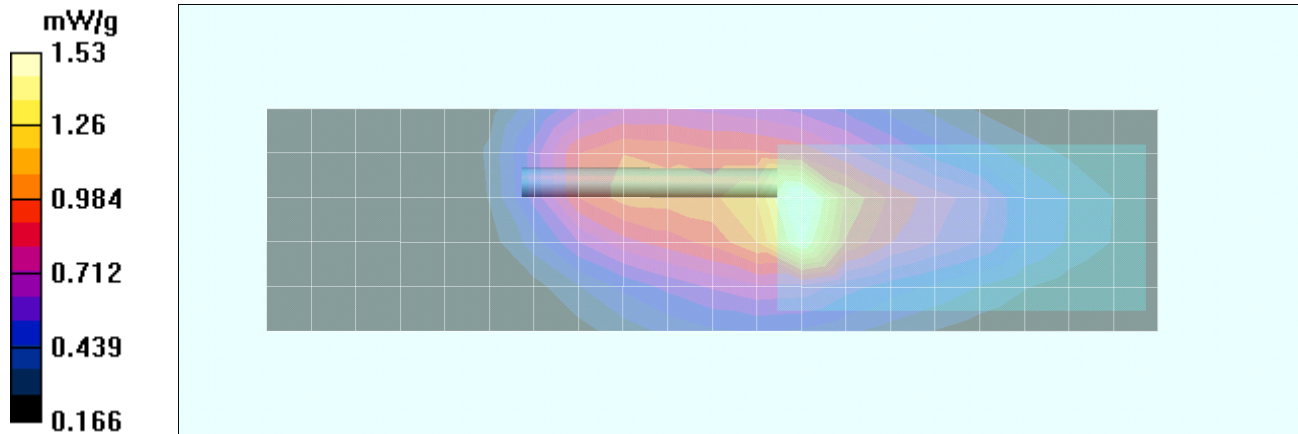
Reference Value = 41.7 V/m; Power Drift = -0.444 dB

Peak SAR (extrapolated) = 3.49 W/kg



SAR(1 g) = 1.45 mW/g; SAR(10 g) = 0.866 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.53 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B3

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4$ MHz; $\sigma = 0.75$ mho/m; $\epsilon_r = 64.1$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.639 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

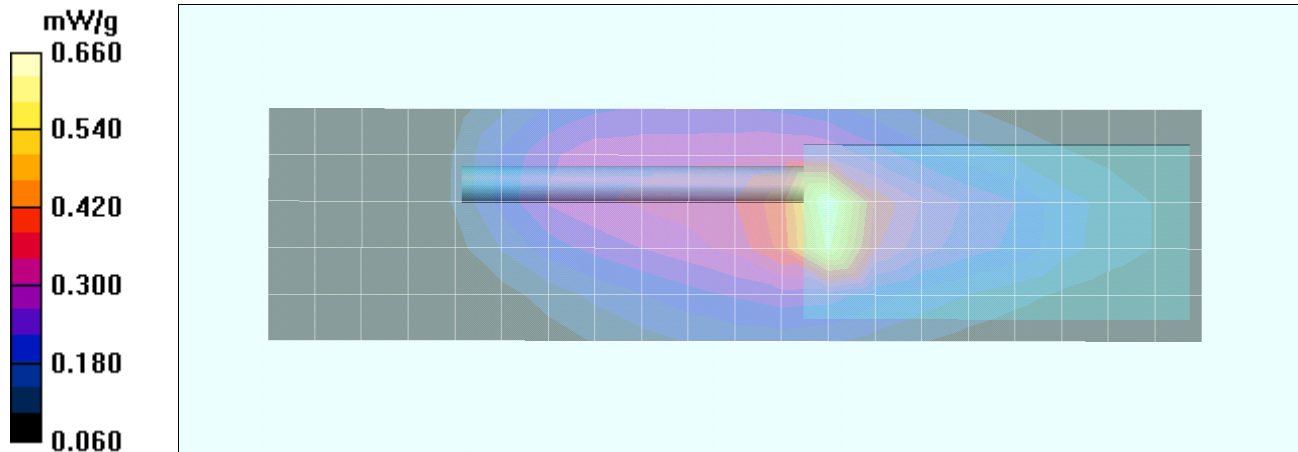
Reference Value = 26.7 V/m; Power Drift = -0.232 dB

Peak SAR (extrapolated) = 1.86 W/kg



SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.342 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.660 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B4

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 167.7$ MHz; $\sigma = 0.758$ mho/m; $\epsilon_r = 62.4$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.659 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

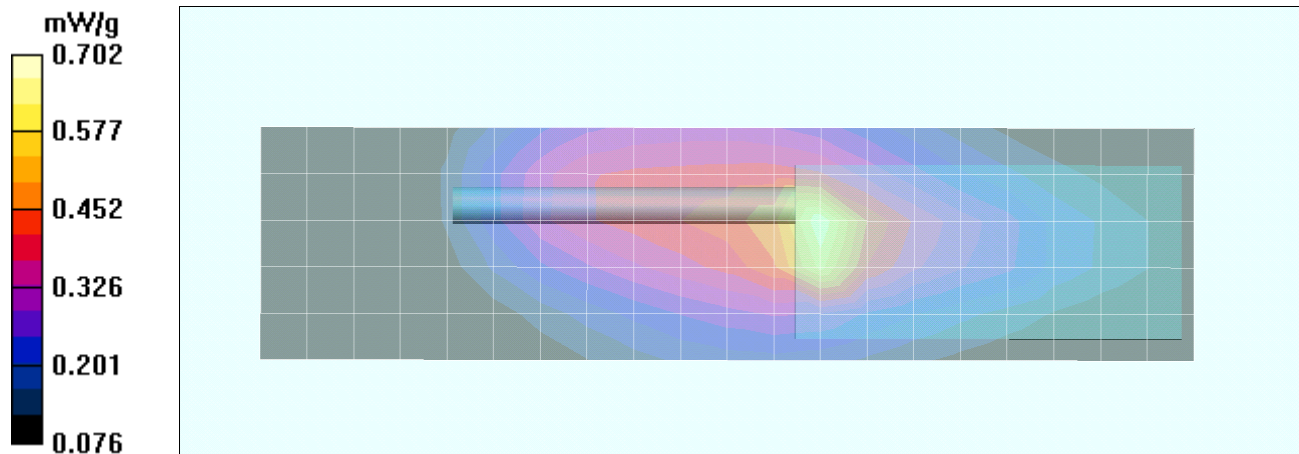
Reference Value = 26.6 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 1.73 W/kg



SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.393 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.702 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B5

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4$ MHz; $\sigma = 0.75$ mho/m; $\epsilon_r = 64.1$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.93 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

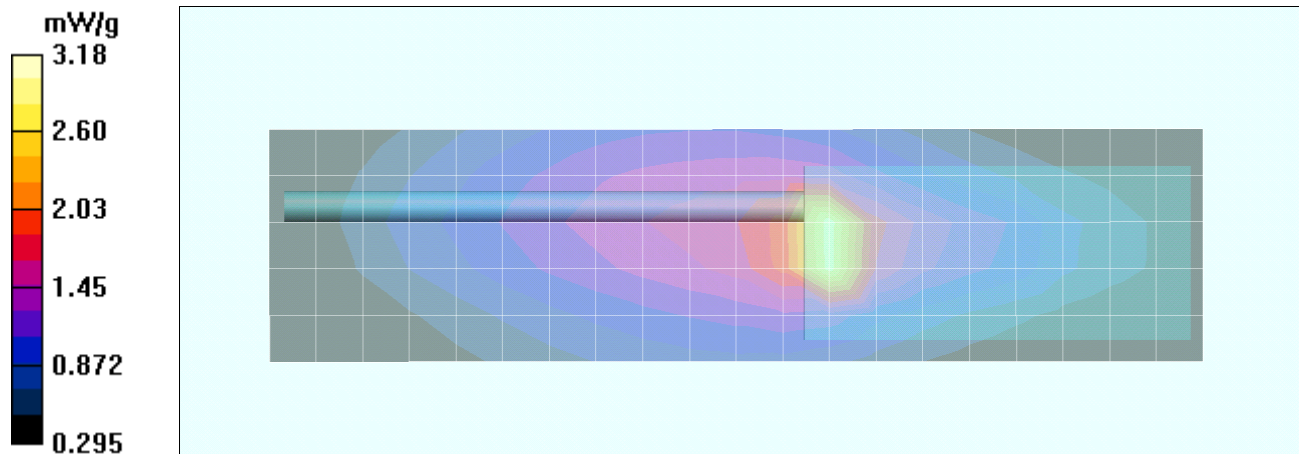
Reference Value = 57.4 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 9.03 W/kg

SAR(1 g) = 3.02 mW/g; SAR(10 g) = 1.63 mW/g

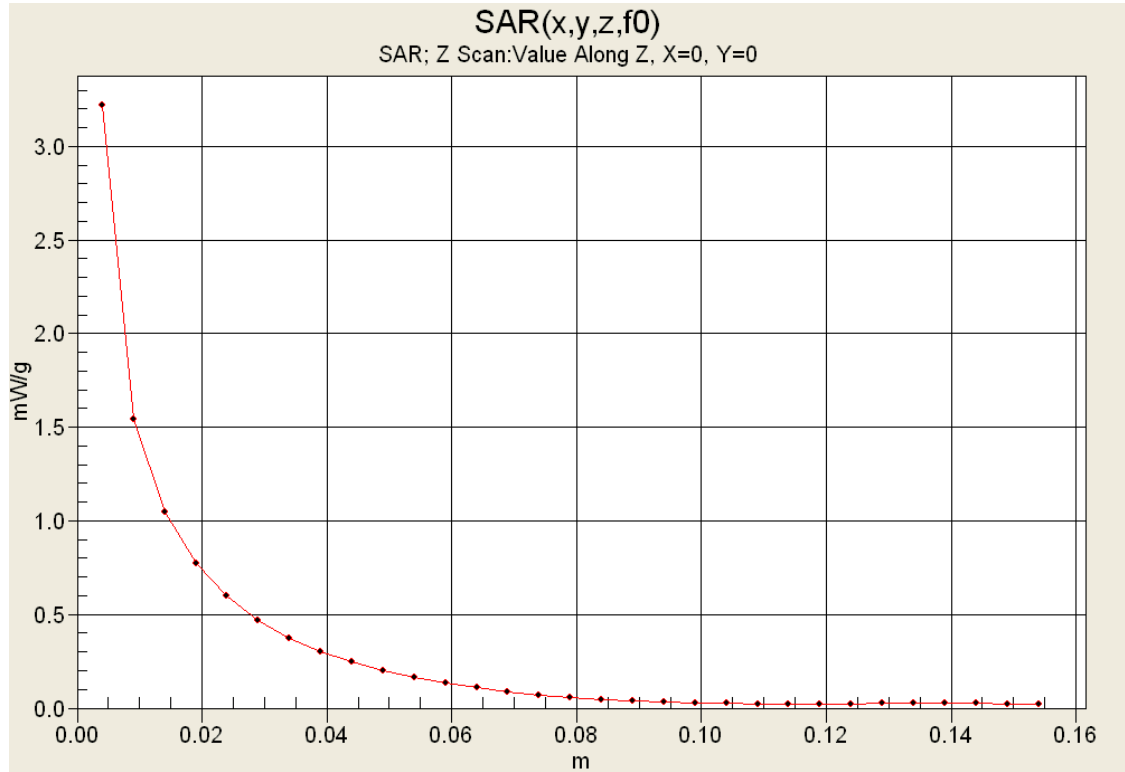
Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.18 mW/g

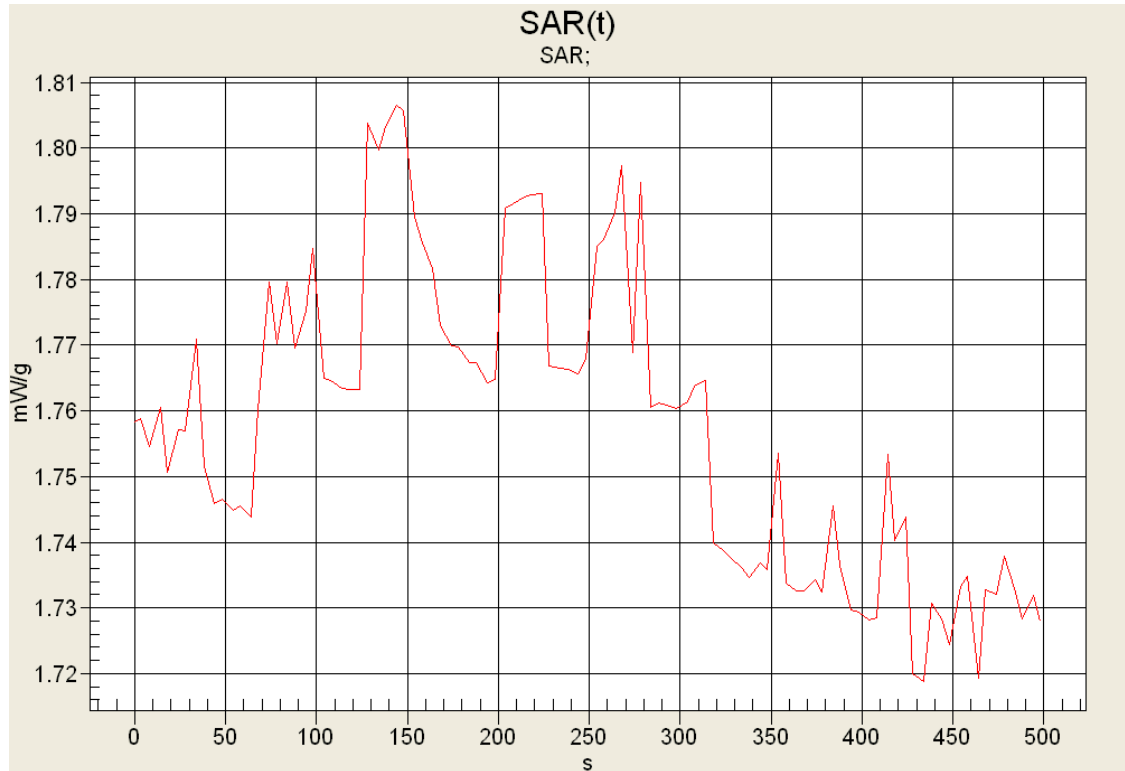


Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Z-Axis Scan



SAR-Versus-Time



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K		TK-2400-K2	
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B6

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 167.7$ MHz; $\sigma = 0.758$ mho/m; $\epsilon_r = 62.4$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.902 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

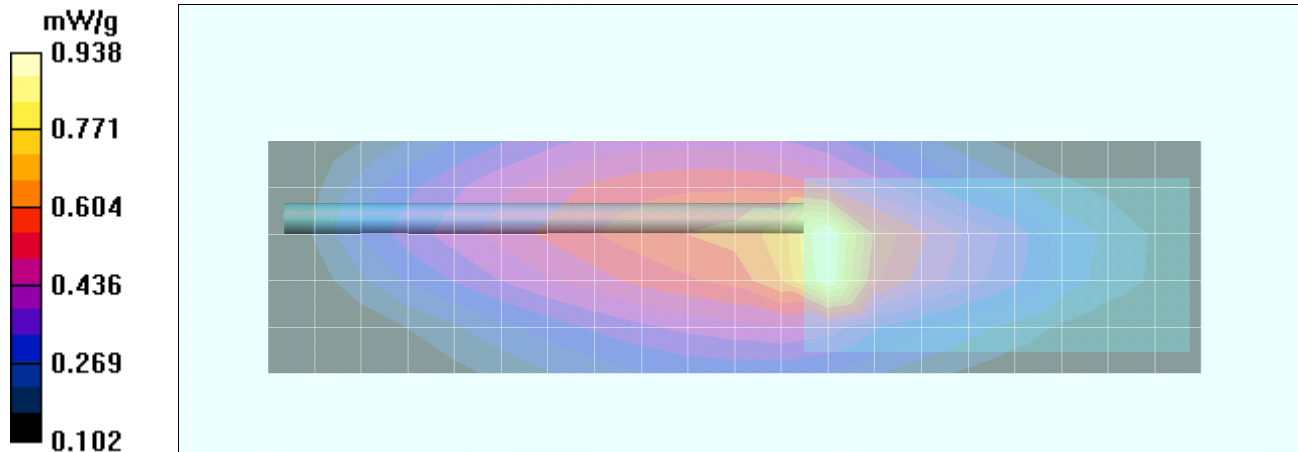
Reference Value = 32.3 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 2.17 W/kg



SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.523 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.938 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B7

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.766 \text{ mho/m}$; $\epsilon_r = 63.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.38 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

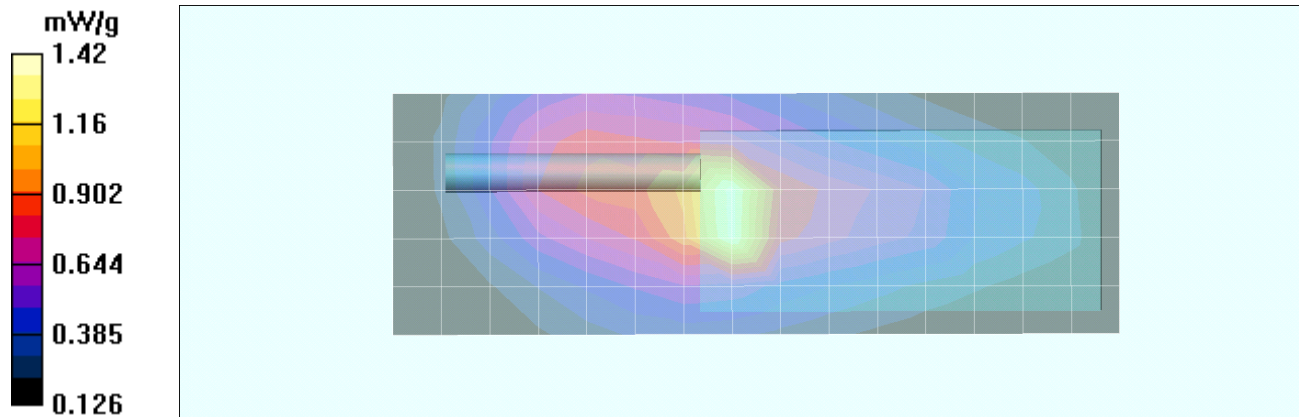
Reference Value = 39.8 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 3.96 W/kg



SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.757 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.42 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B8

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 167.7 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 167.7 \text{ MHz}$; $\sigma = 0.778 \text{ mho/m}$; $\epsilon_r = 62.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.10 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

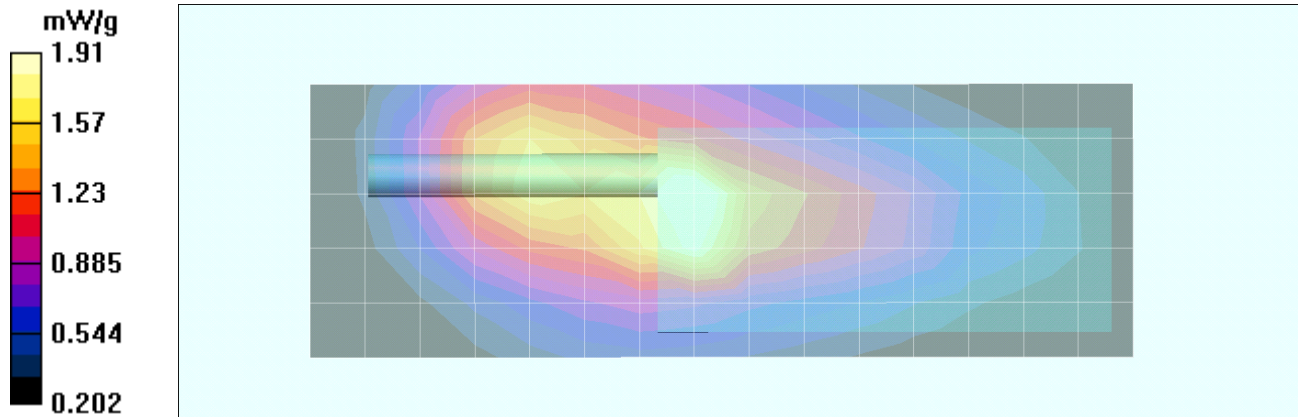
Reference Value = 48.1 V/m; Power Drift = -0.208 dB

Peak SAR (extrapolated) = 4.59 W/kg

SAR(1 g) = 1.89 mW/g; SAR(10 g) = 1.11 mW/g

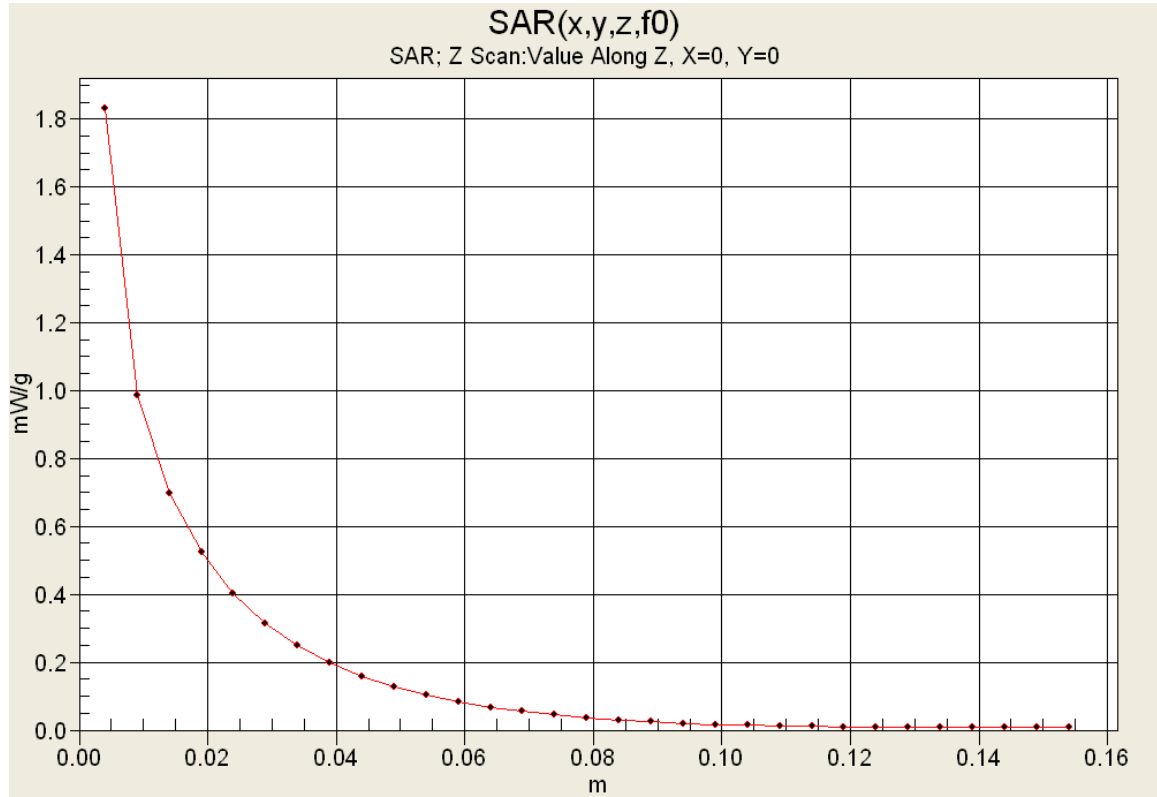
Info: Interpolated medium parameters used for SAR evaluation.



Maximum value of SAR (measured) = 1.91 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B9

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.90 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

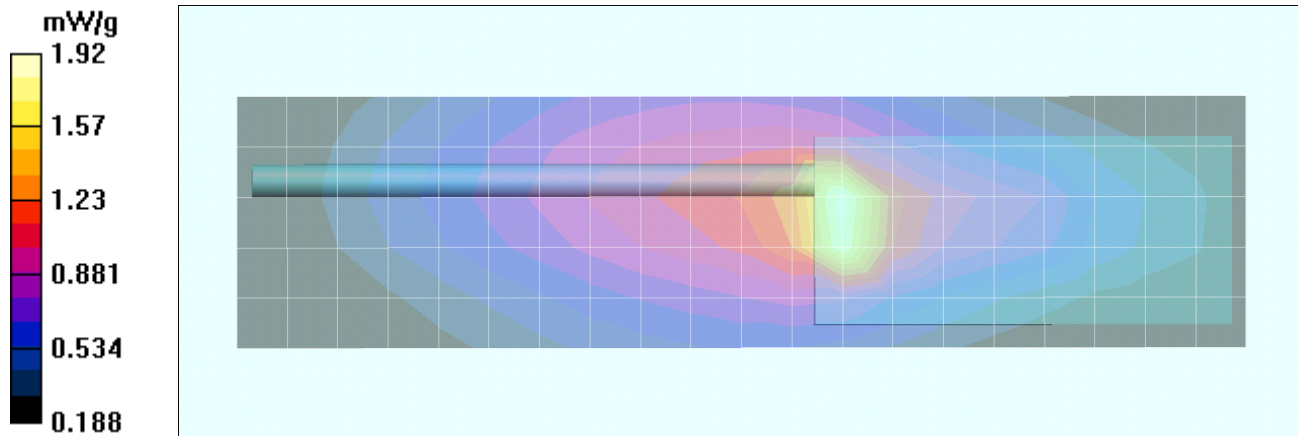
Reference Value = 45.0 V/m; Power Drift = -0.299 dB

Peak SAR (extrapolated) = 5.01 W/kg



SAR(1 g) = 1.82 mW/g; SAR(10 g) = 1.02 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.92 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A1

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.38 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

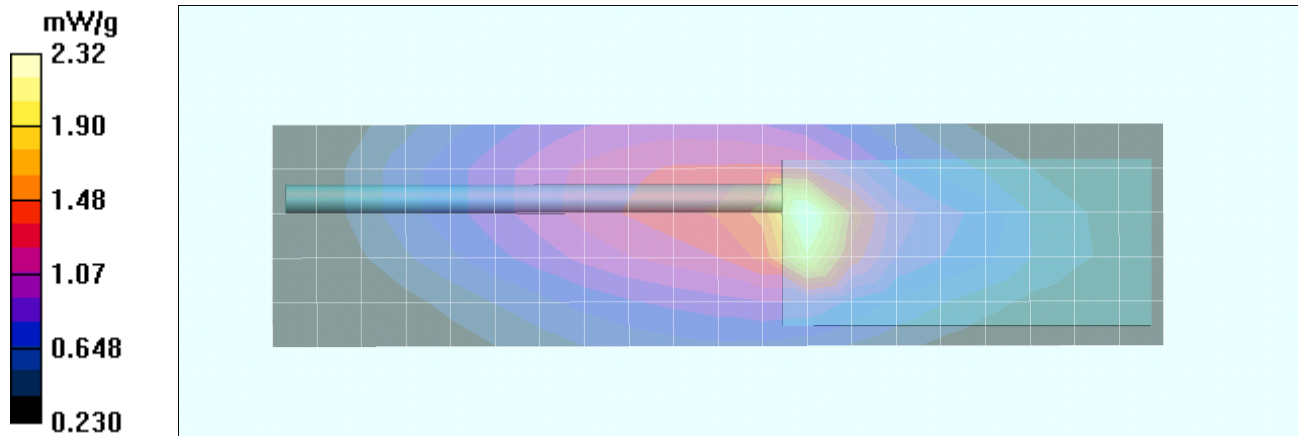
Reference Value = 47.7 V/m; Power Drift = -0.211 dB

Peak SAR (extrapolated) = 6.52 W/kg

SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.26 mW/g

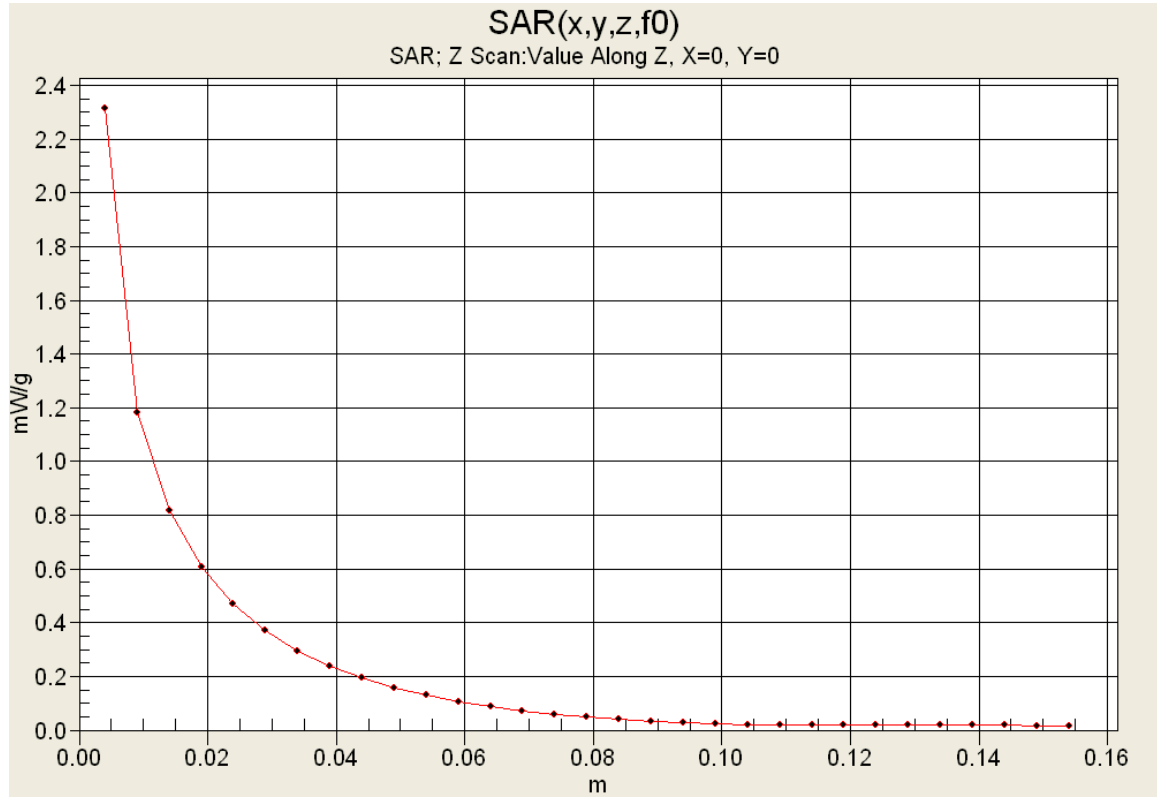
Info: Interpolated medium parameters used for SAR evaluation.



Maximum value of SAR (measured) = 2.32 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A2

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4$ MHz; $\sigma = 0.776$ mho/m; $\epsilon_r = 62.2$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.26 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

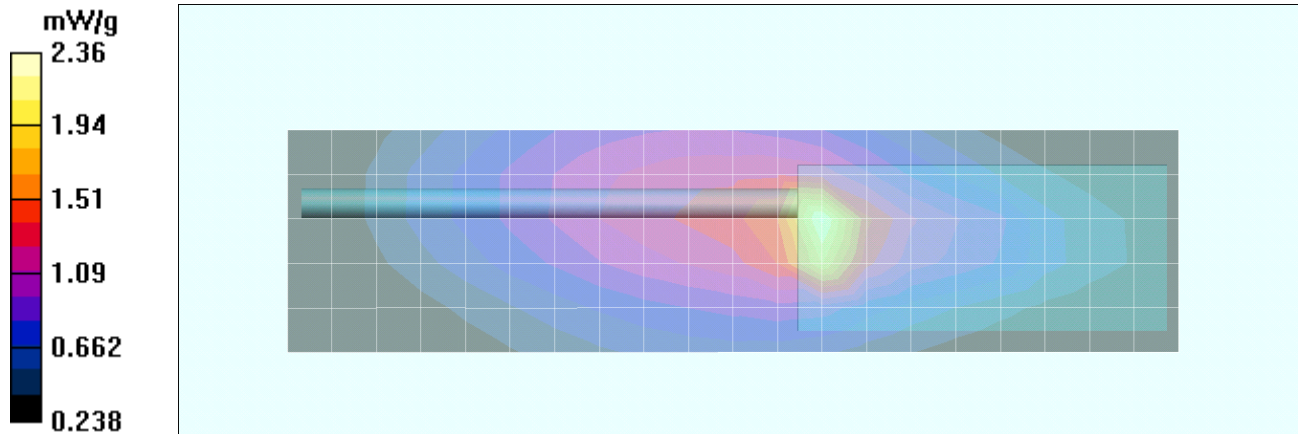
Reference Value = 47.4 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 6.23 W/kg



SAR(1 g) = 2.23 mW/g; SAR(10 g) = 1.24 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.36 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A3

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4$ MHz; $\sigma = 0.776$ mho/m; $\epsilon_r = 62.2$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.56 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

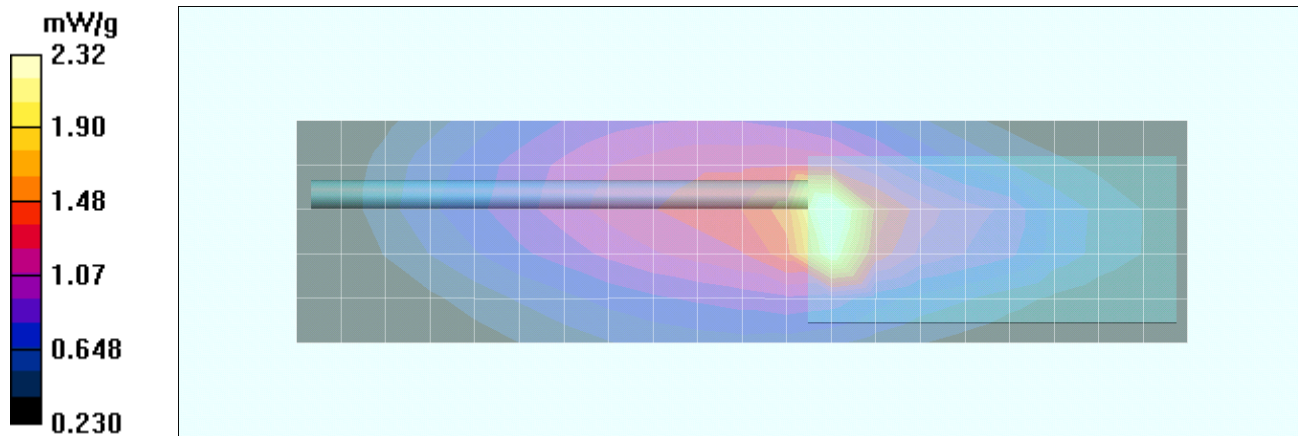
Reference Value = 45.4 V/m; Power Drift = 0.369 dB

Peak SAR (extrapolated) = 6.16 W/kg



SAR(1 g) = 2.17 mW/g; SAR(10 g) = 1.21 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.32 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K	TK-2400-K2		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1189-S90V	<u>Test Report Revision No.</u> Rev. 1.0 (1st Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Oct. 17, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A4

Date Tested: 08/28/2012

DUT: Kenwood VHF TK-2400-K2; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0418

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.81 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

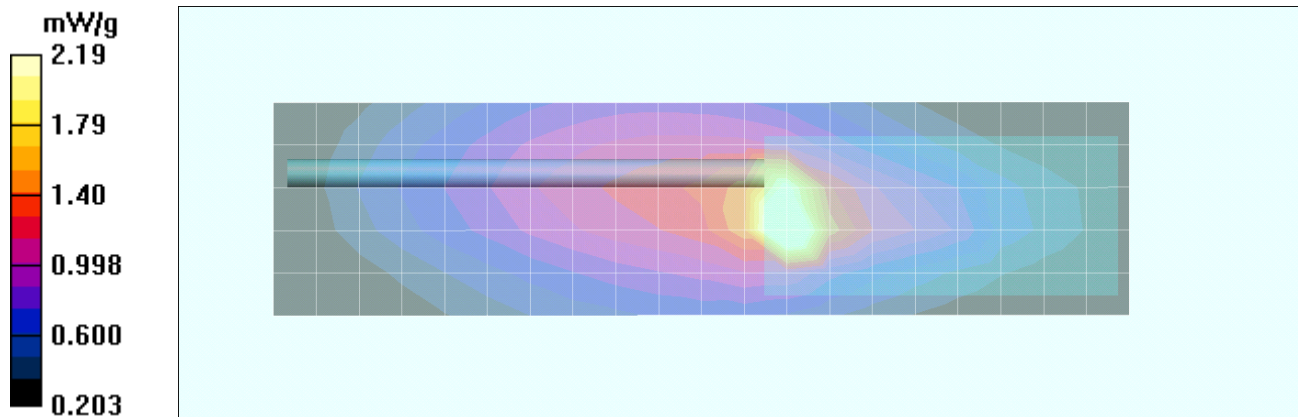
Reference Value = 48.1 V/m; Power Drift = -0.206 dB

Peak SAR (extrapolated) = 6.22 W/kg

SAR(1 g) = 2.13 mW/g; SAR(10 g) = 1.16 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.19 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434901	Freq:	150.8 - 173.4 MHz	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2400-K		TK-2400-K2	
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Z-Axis Scan

