

 Celltech Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 IAC-MRA ACCREDITED
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## APPENDIX A - SAR MEASUREMENT DATA

<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		
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## Face SAR Plot F1

Date Tested: 08/15//2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.25 mW/g

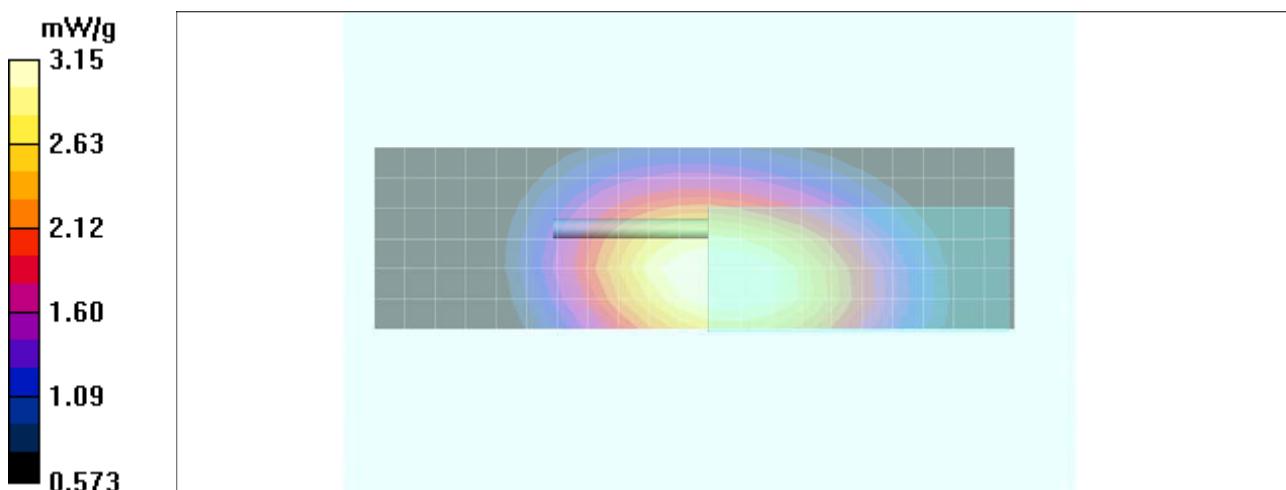
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 64.7 V/m; Power Drift = -0.486 dB

Peak SAR (extrapolated) = 4.14 W/kg

**SAR(1 g) = 3.01 mW/g; SAR(10 g) = 2.25 mW/g**

Maximum value of SAR (measured) = 3.15 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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## Face SAR Plot F2

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

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

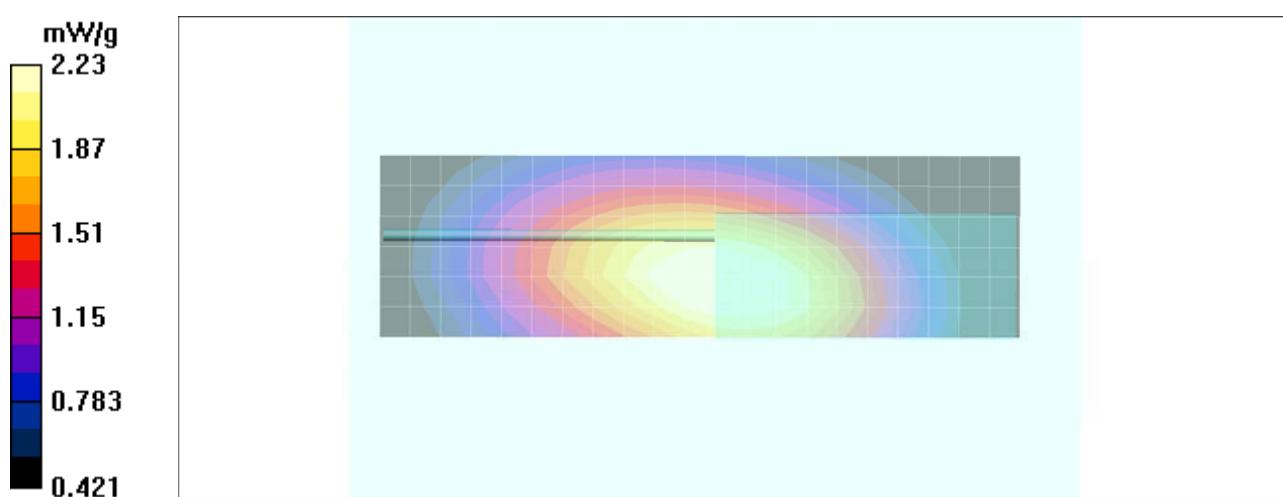
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.0 V/m; Power Drift = -0.407 dB

Peak SAR (extrapolated) = 2.92 W/kg

**SAR(1 g) = 2.14 mW/g; SAR(10 g) = 1.6 mW/g**

Maximum value of SAR (measured) = 2.23 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Face SAR Plot F3

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

## Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.39 mW/g

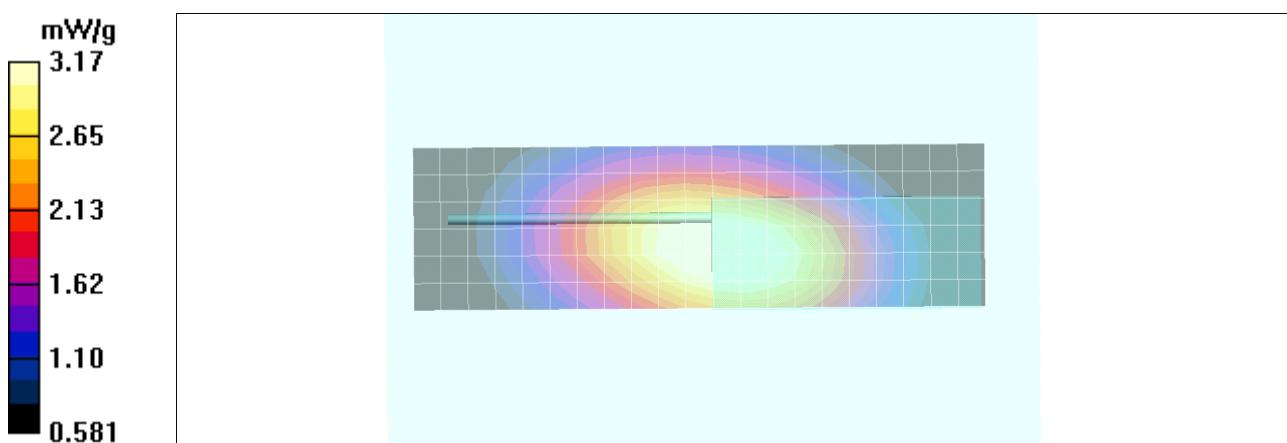
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 64.1 V/m; Power Drift = -0.367 dB

Peak SAR (extrapolated) = 4.18 W/kg

**SAR(1 g) = 3.04 mW/g; SAR(10 g) = 2.27 mW/g**

Maximum value of SAR (measured) = 3.17 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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## Face SAR Plot F4

Date Tested: 08/15//2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.80 mW/g

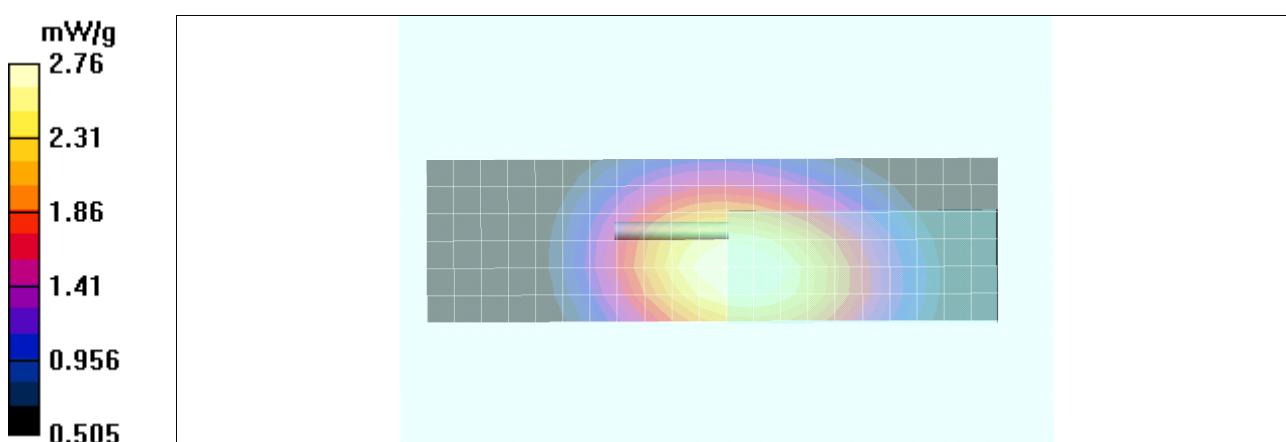
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 59.6 V/m; Power Drift = -0.277 dB

Peak SAR (extrapolated) = 3.63 W/kg

**SAR(1 g) = 2.65 mW/g; SAR(10 g) = 1.99 mW/g**

Maximum value of SAR (measured) = 2.76 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Face SAR Plot F5

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.21 mW/g

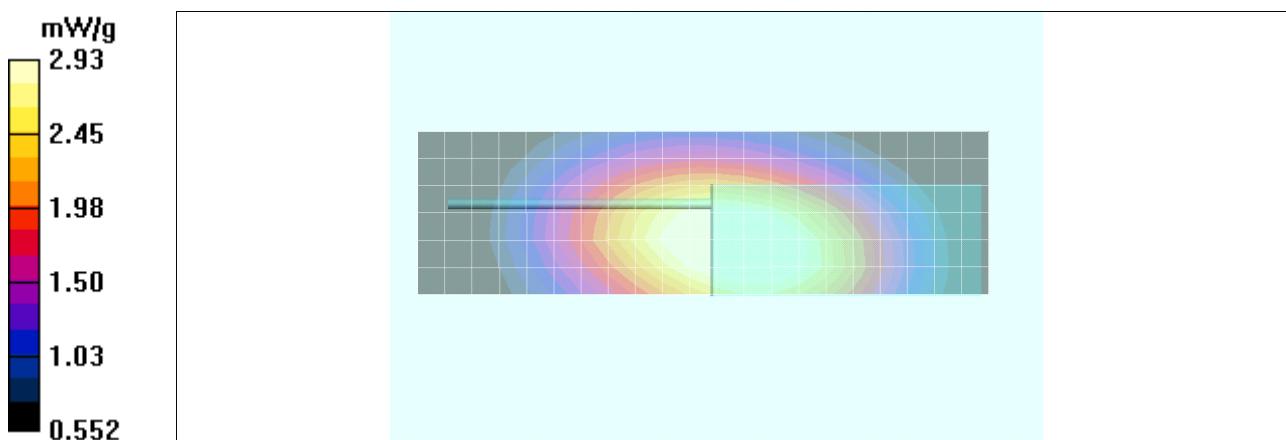
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 64.2 V/m; Power Drift = -0.729 dB

Peak SAR (extrapolated) = 3.86 W/kg

**SAR(1 g) = 2.81 mW/g; SAR(10 g) = 2.11 mW/g**

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



<b>Applicant:</b>	<b>HARRIS Corporation</b>		<b>FCC ID:</b>	<b>OWDTR-0070-E</b>		<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>		<b>406.1 - 470.0 MHz</b>		
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Face SAR Plot F6

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.12 mW/g

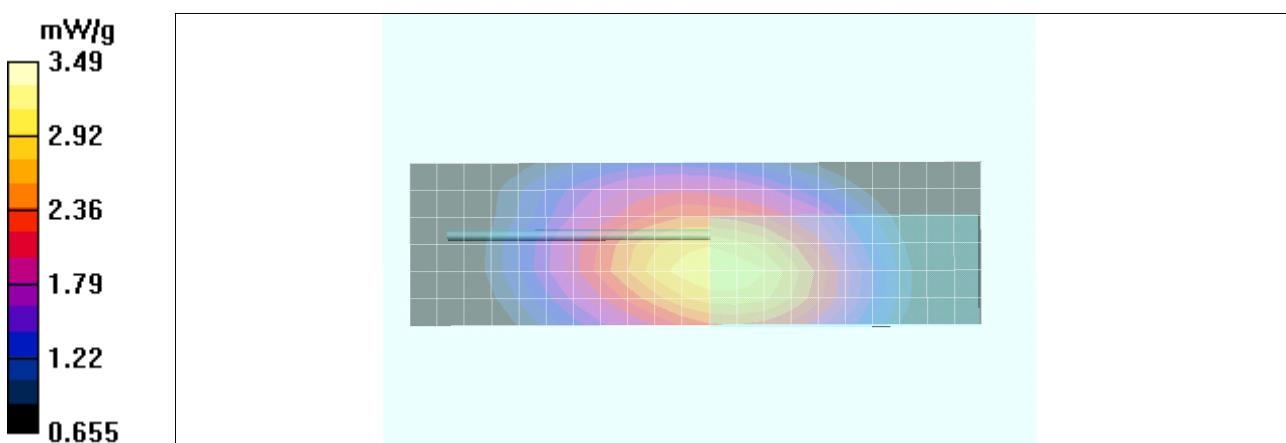
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 61.3 V/m; Power Drift = 0.485 dB

Peak SAR (extrapolated) = 4.58 W/kg

**SAR(1 g) = 3.34 mW/g; SAR(10 g) = 2.51 mW/g**

Maximum value of SAR (measured) = 3.49 mW/g

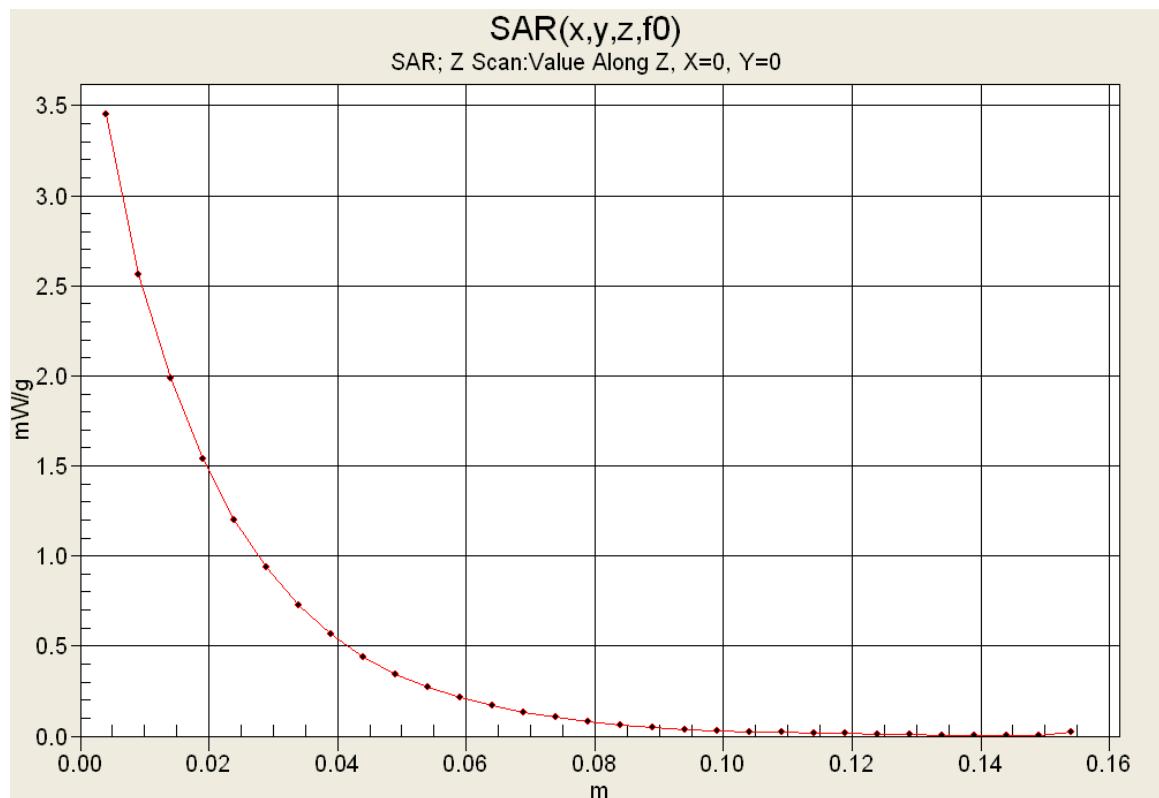


<b>Applicant:</b>	<b>HARRIS Corporation</b>		<b>FCC ID:</b>	<b>OWDTR-0070-E</b>		<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>		<b>406.1 - 470.0 MHz</b>		
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Test Lab Certificate No. 2470.01

## Z-Axis Scan



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	 HARRIS
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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Test Lab Certificate No. 2470.01

## Face SAR Plot F7

Date Tested: 08/15//2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.70 mW/g

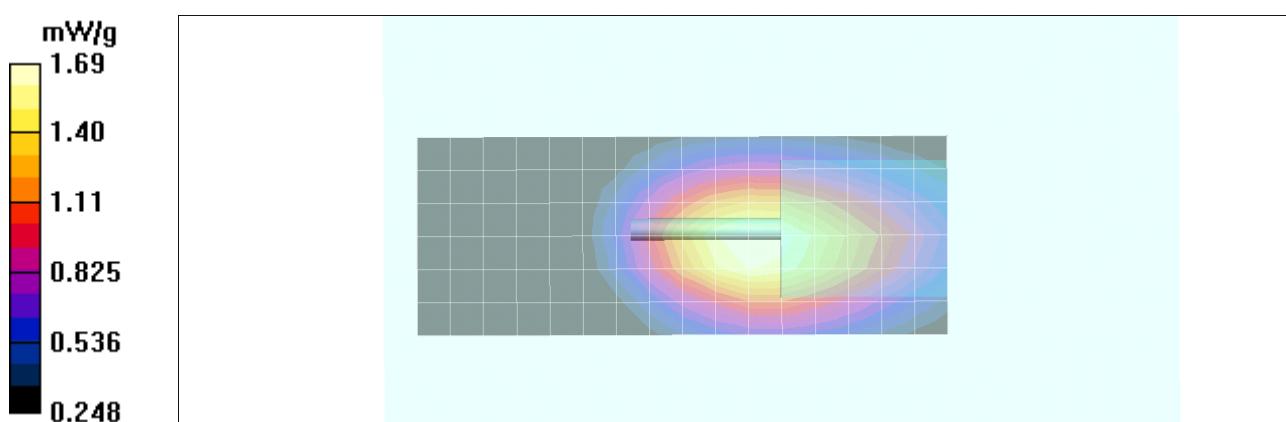
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 44.8 V/m; Power Drift = -0.233 dB

Peak SAR (extrapolated) = 2.28 W/kg

**SAR(1 g) = 1.61 mW/g; SAR(10 g) = 1.16 mW/g**

Maximum value of SAR (measured) = 1.69 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

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## Face SAR Plot F8

Date Tested: 08/15//2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.44 mW/g

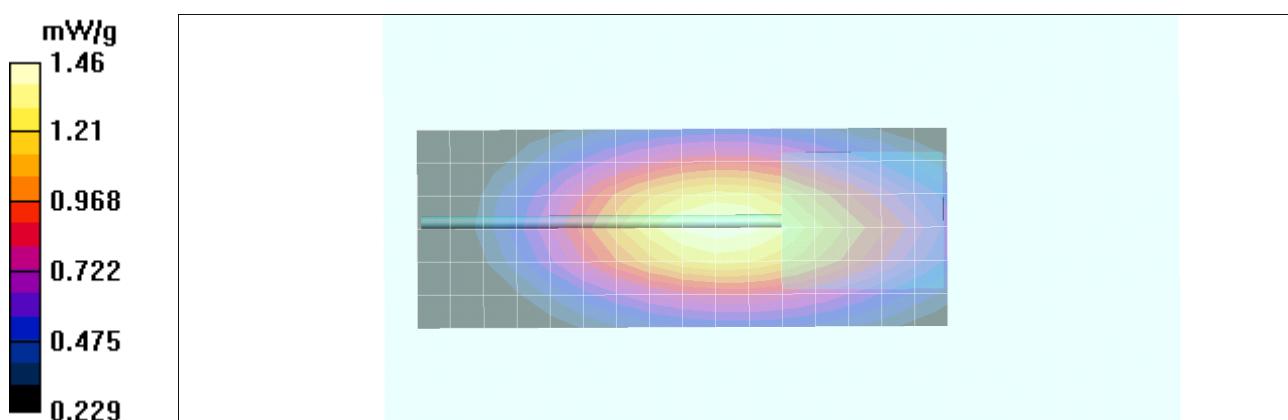
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 40.3 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.989 mW/g**

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



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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## Face SAR Plot F9

Date Tested: 08/15//2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

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

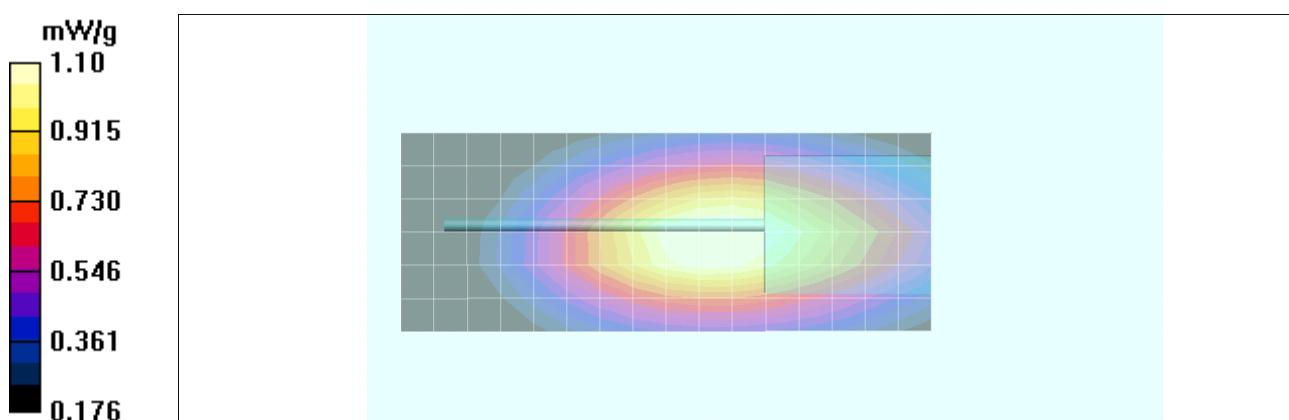
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 36.8 V/m; Power Drift = -0.466 dB

Peak SAR (extrapolated) = 1.49 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.761 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>		<b>FCC ID:</b>	<b>OWDTR-0070-E</b>		<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>		<b>406.1 - 470.0 MHz</b>		
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Face SAR Plot F10

Date Tested: 08/15//2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 24C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.17 mW/g

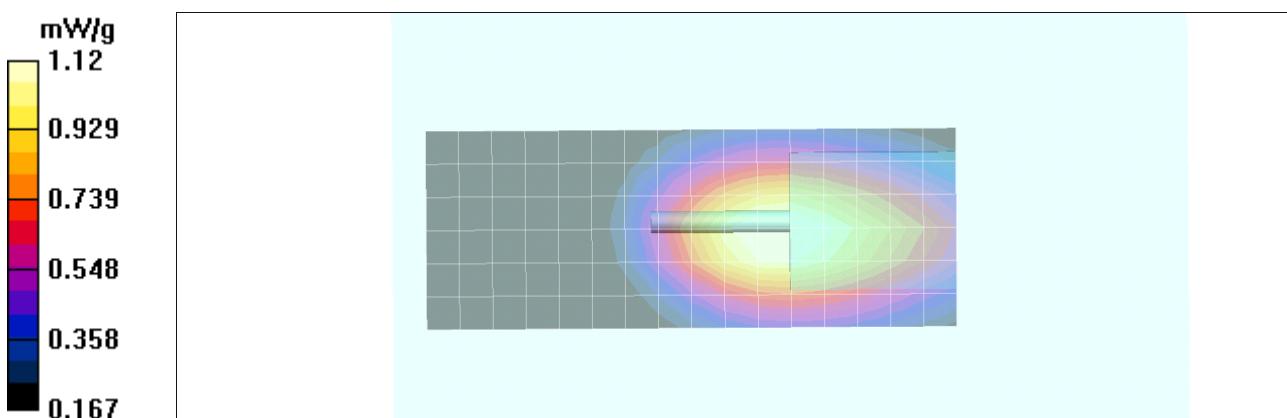
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 38.2 V/m; Power Drift = -0.502 dB

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.770 mW/g**

Maximum value of SAR (measured) = 1.12 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B1

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.63 mW/g

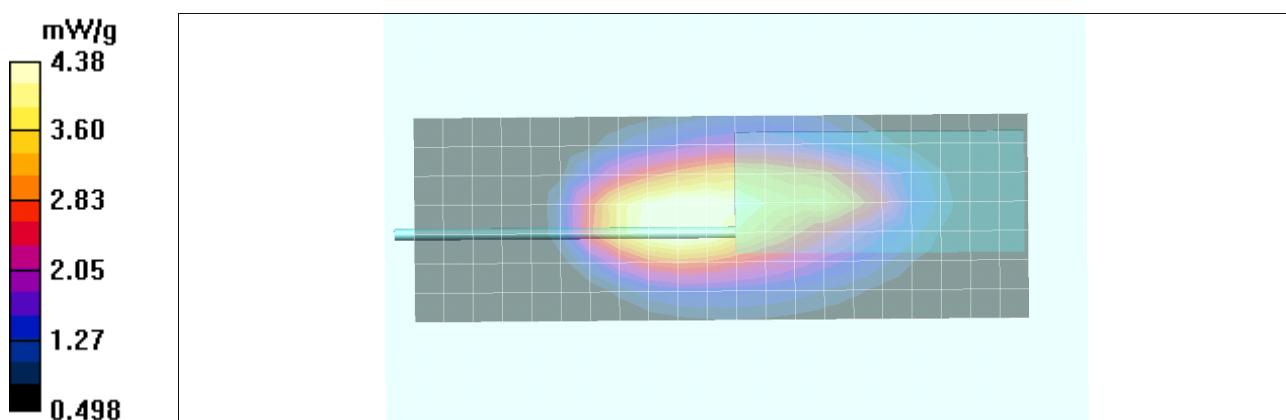
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 63.4 V/m; Power Drift = -0.258 dB

Peak SAR (extrapolated) = 6.32 W/kg

**SAR(1 g) = 4.18 mW/g; SAR(10 g) = 2.9 mW/g**

Maximum value of SAR (measured) = 4.38 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B2

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 418.05 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 418.05$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.5 mW/g

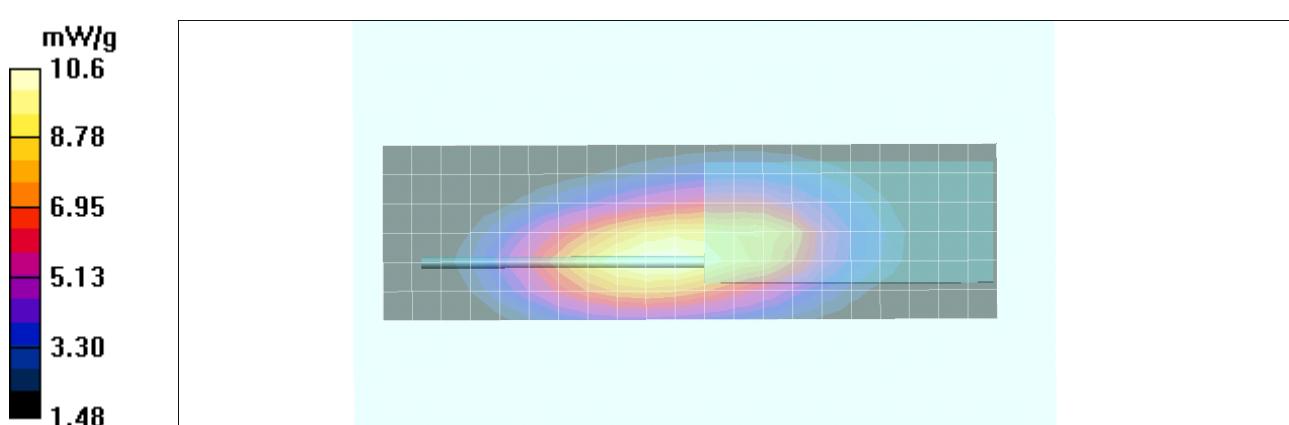
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 91.9 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 14.9 W/kg

**SAR(1 g) = 10.0 mW/g; SAR(10 g) = 7.07 mW/g**

Info: Interpolated medium parameters used for SA



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B3

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

## Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.2 mW/g

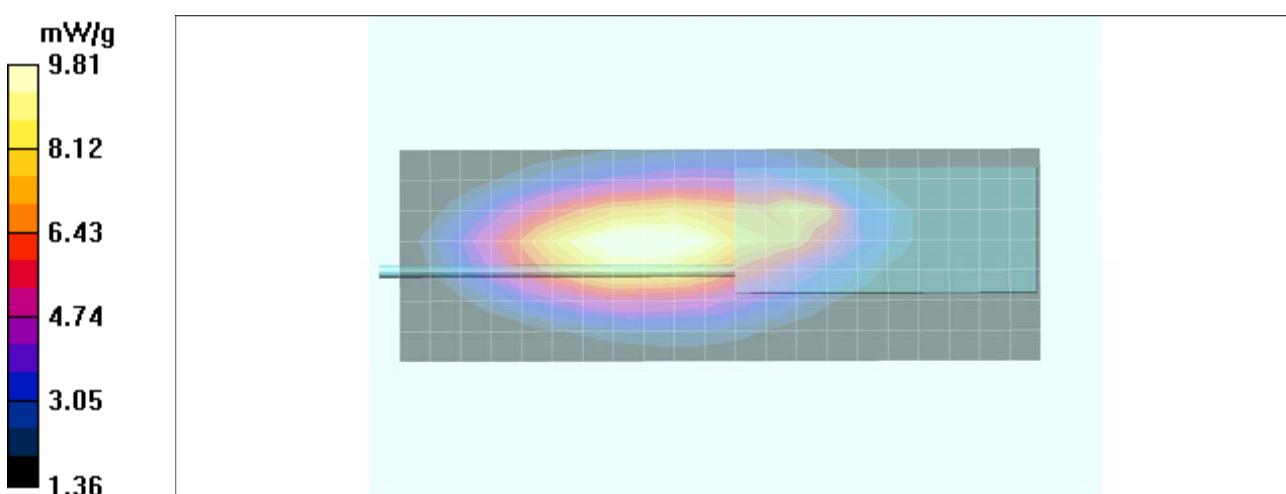
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 90.0 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(1 g) = 9.32 mW/g; SAR(10 g) = 6.53 mW/g**

Maximum value of SAR (measured) = 9.81 mW/q

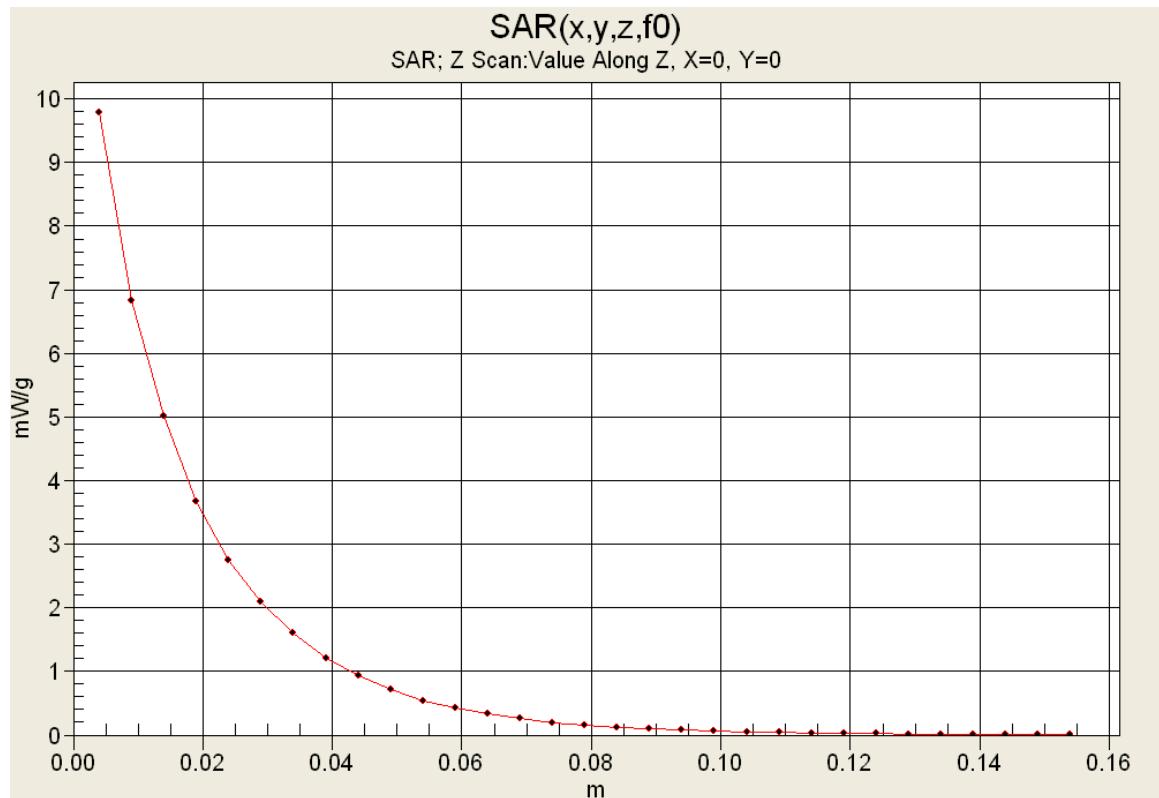


<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Z-axis Scan



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B4

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.0 mW/g

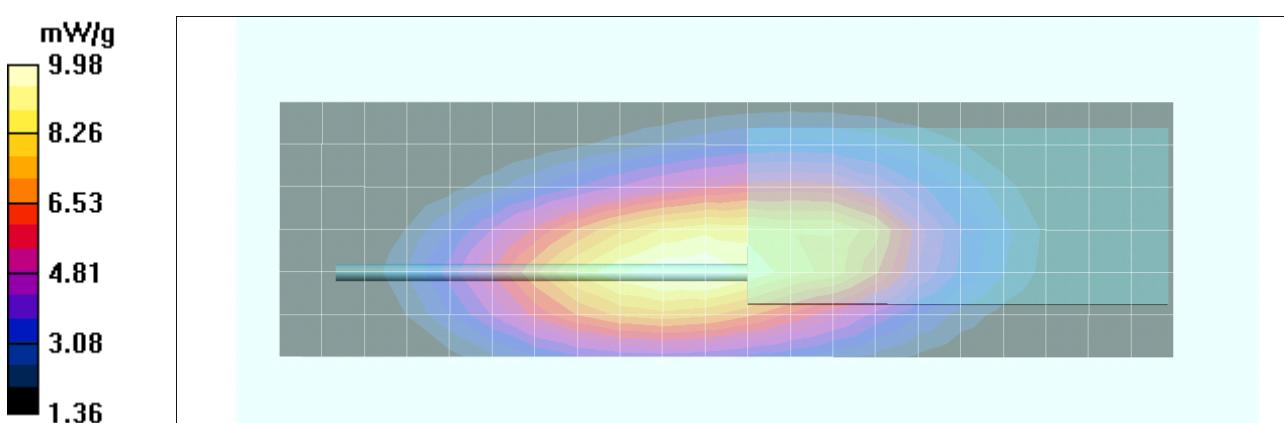
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 91.4 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(1 g) = 9.49 mW/g; SAR(10 g) = 6.71 mW/g**

Maximum value of SAR (measured) = 9.98 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B5

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 11.4 mW/g

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

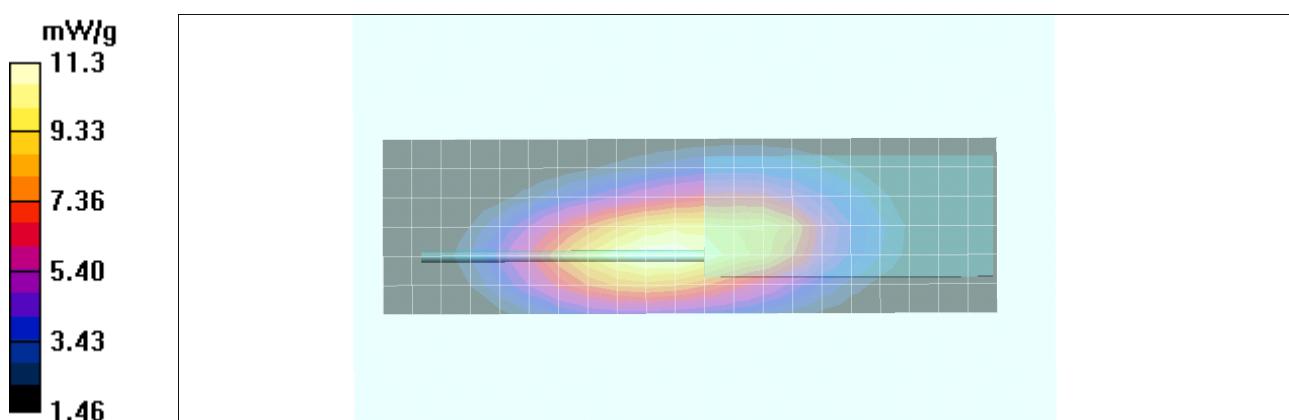
Reference Value = 103.9 V/m; Power Drift = -0.278 dB

Peak SAR (extrapolated) = 16.2 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.51 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 11.3 mW/g

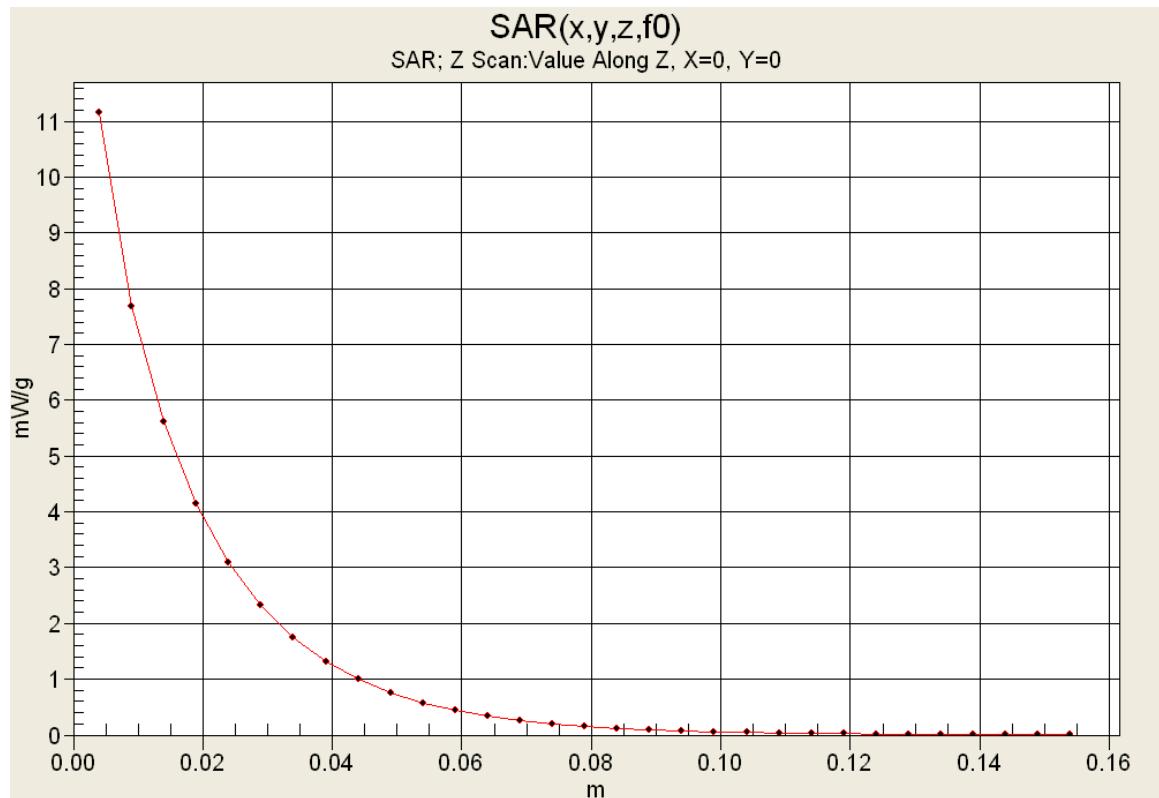


Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			

 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 IAC-MRA ACCREDITED
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Z-axis Scan

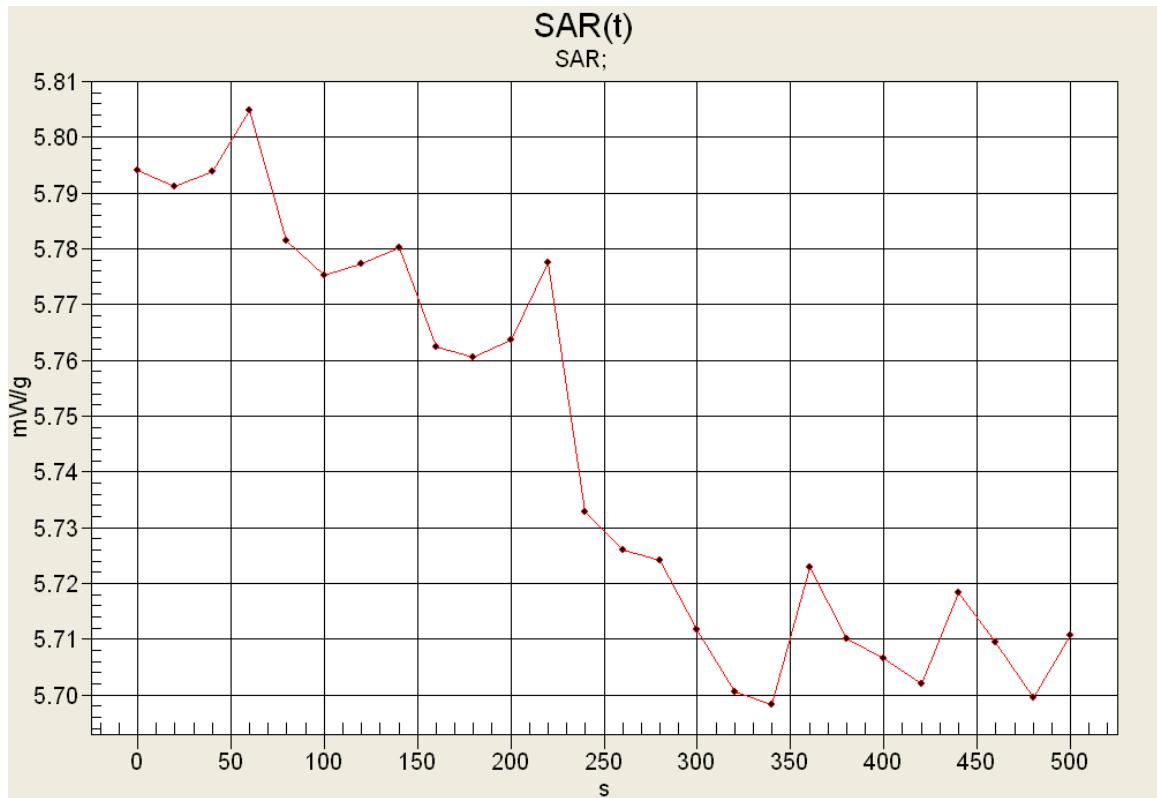


Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## SAR-Versus-Time Droop



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B6

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.5 mW/g

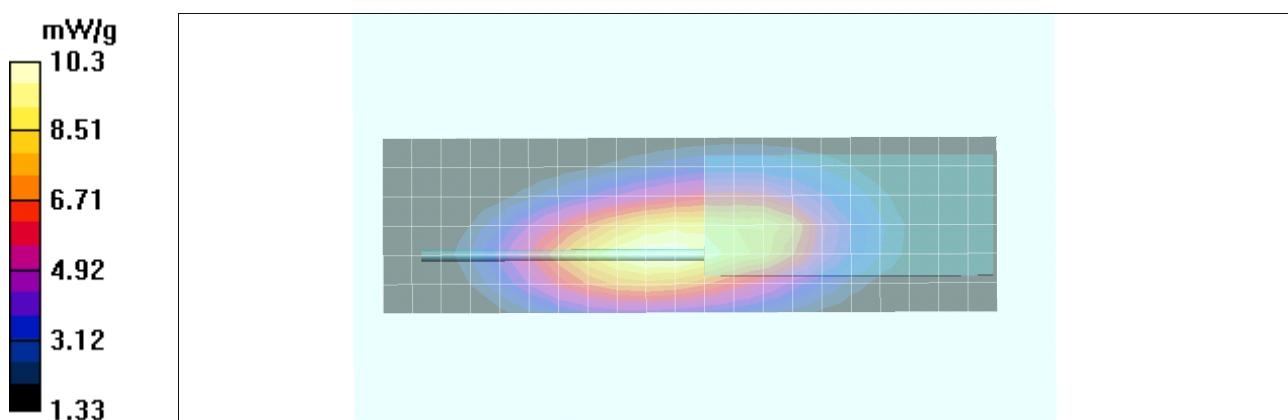
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 92.5 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 14.6 W/kg

**SAR(1 g) = 9.76 mW/g; SAR(10 g) = 6.82 mW/g**

Maximum value of SAR (measured) = 10.3 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>		<b>FCC ID:</b>	<b>OWDTR-0070-E</b>		<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>		<b>406.1 - 470.0 MHz</b>		
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B7

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.6 mW/g

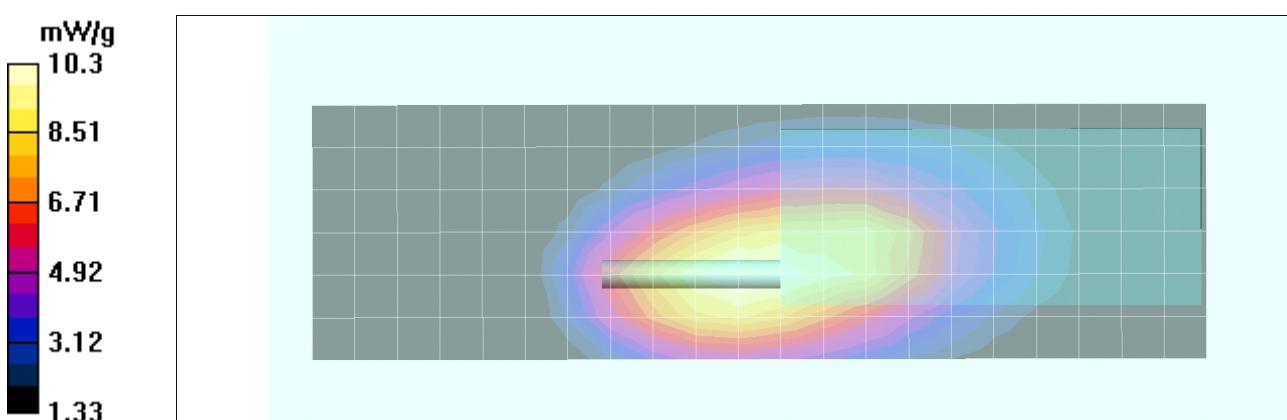
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 90.8 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 14.4 W/kg

**SAR(1 g) = 9.75 mW/g; SAR(10 g) = 6.9 mW/g**

Maximum value of SAR (measured) = 10.3 mW/g

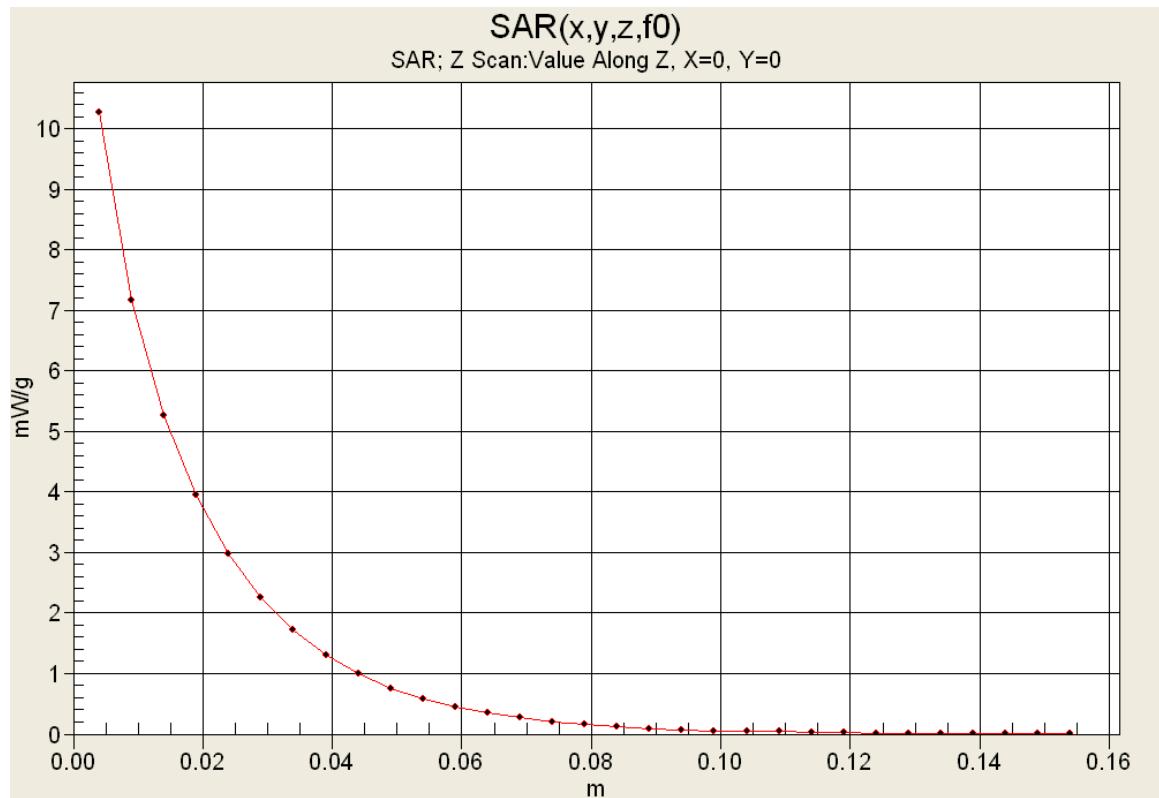


Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Z-Axis Scan



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	 HARRIS
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B8

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.94 mW/g

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

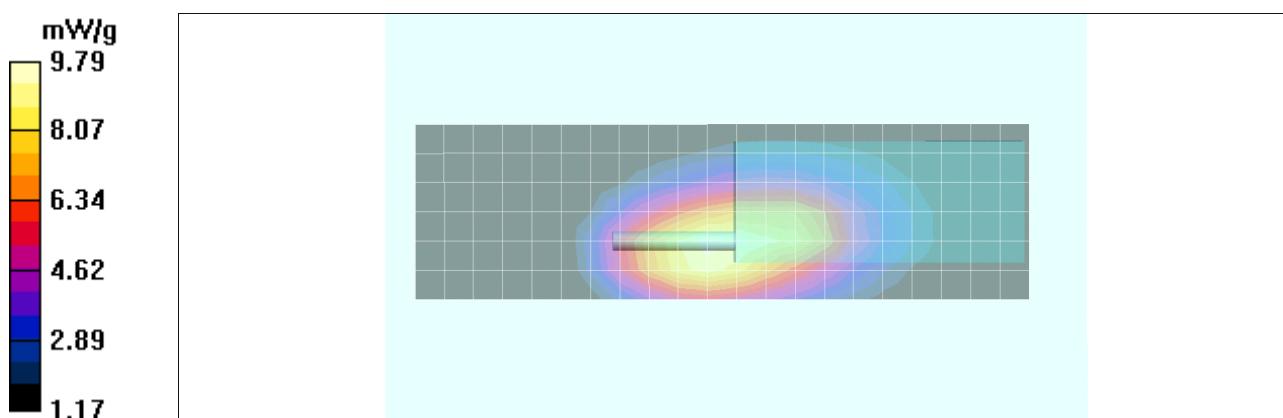
Reference Value = 100.3 V/m; Power Drift = -0.597 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(1 g) = 9.31 mW/g; SAR(10 g) = 6.52 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.79 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

 Testing and Engineering Services Ltd.	Date(s) of Evaluation August 11-16, 2011	Test Report Serial No. 063011OWD-T1107-S90U	Test Report Revision No. Rev. 1.2 (3rd Release)	 IAC-MRA ACCREDITED
	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B9

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.98 mW/g

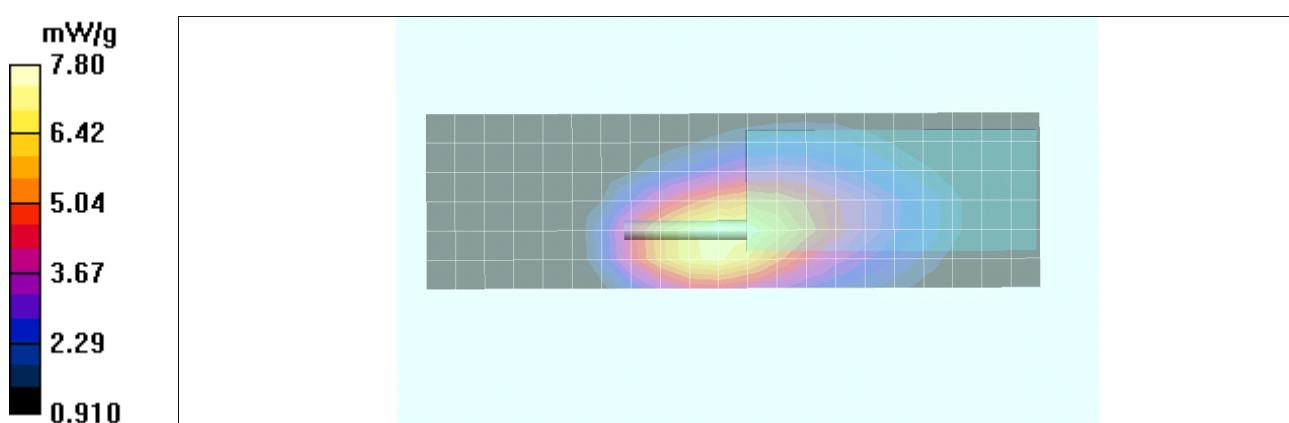
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 82.8 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 11.2 W/kg

**SAR(1 g) = 7.41 mW/g; SAR(10 g) = 5.18 mW/g**

Maximum value of SAR (measured) = 7.80 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 IAC-MRA ACCREDITED
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B10

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 418.05 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 418.05$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.2 mW/g

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

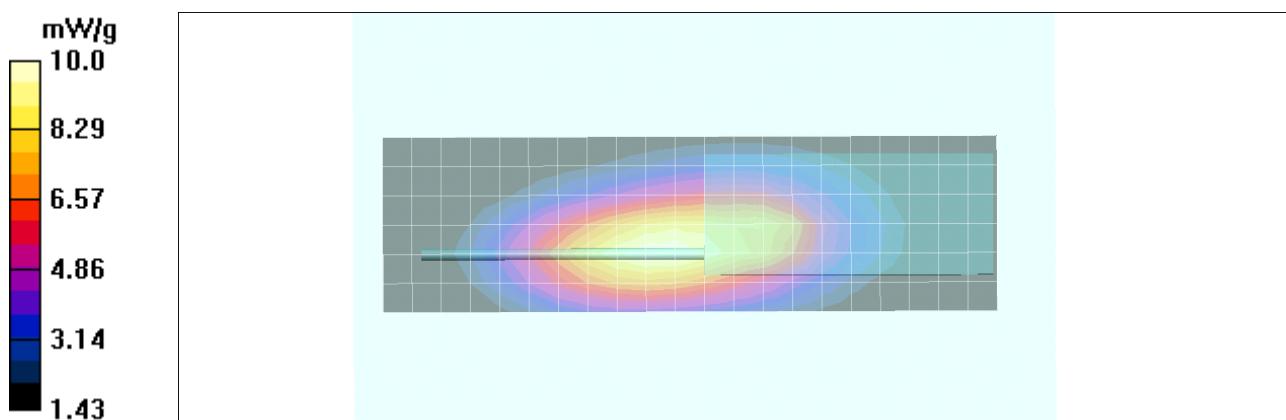
Reference Value = 90.1 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 14.2 W/kg

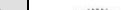
**SAR(1 g) = 9.54 mW/g; SAR(10 g) = 6.73 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.0 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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 <b>Celltech</b> <small>Testing and Engineering Services Ltd.</small>	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 <b>ilac-MRA</b>  <b>ACCREDITED</b>
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B11

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 418.05 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 418.05$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 7.20 mW/g

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

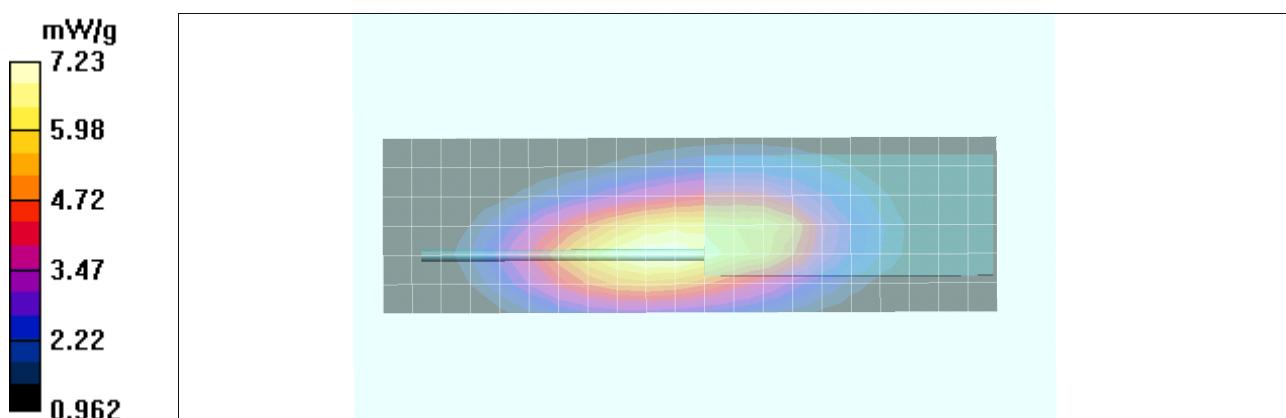
Reference Value = 84.2 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(1 g) = 6.90 mW/g; SAR(10 g) = 4.86 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 7.23 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B12

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.5 mW/g

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

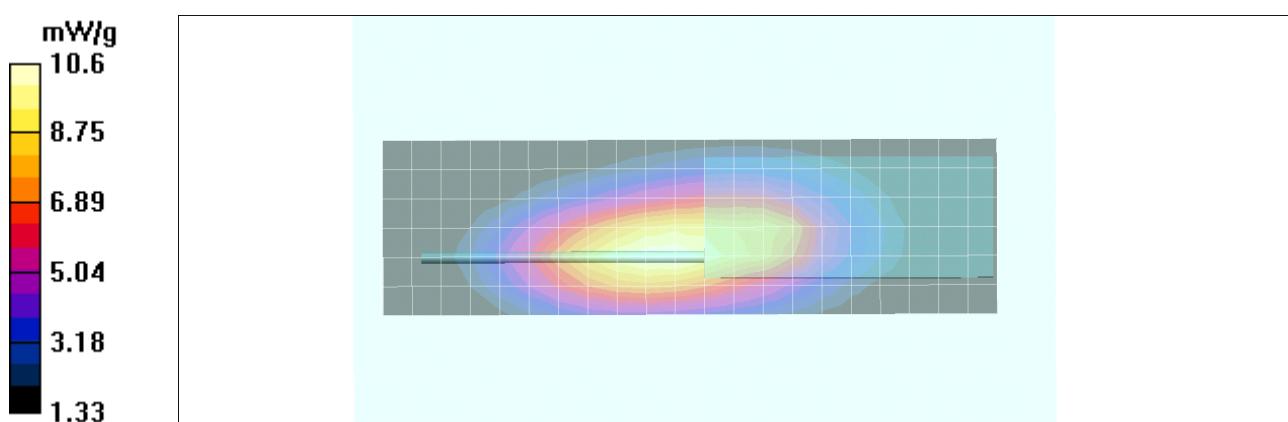
Reference Value = 91.4 V/m; Power Drift = 0.213 dB

Peak SAR (extrapolated) = 15.2 W/kg

**SAR(1 g) = 10.1 mW/g; SAR(10 g) = 7.08 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.6 mW/g



<b>Applicant:</b>	HARRIS Corporation	<b>FCC ID:</b>	OWDTR-0070-E		<b>IC:</b>	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	<b>Model:</b>	XG-75 UHF-L	406.1 - 470.0 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B13

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.91 mW/g

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

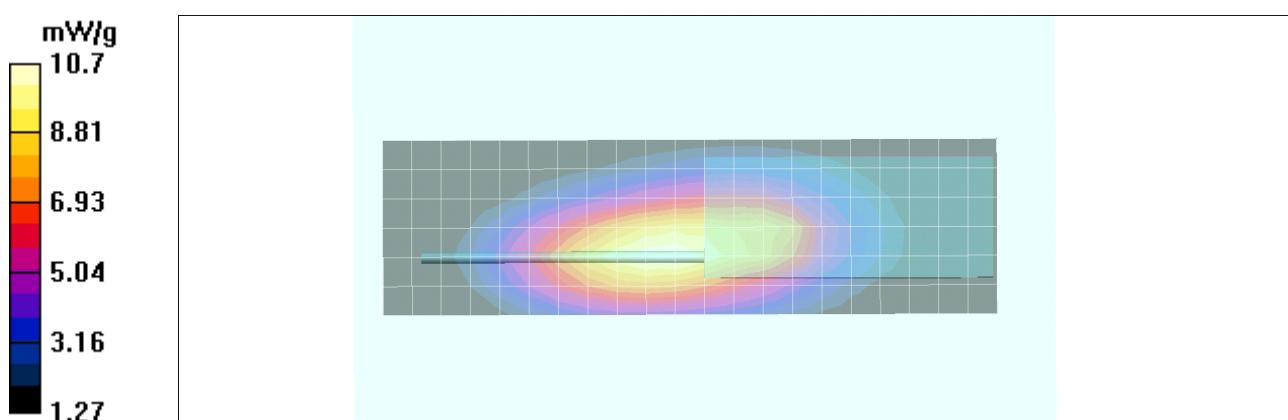
Reference Value = 93.4 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 15.4 W/kg

**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 7.08 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.7 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Body SAR Plot B14

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.76 mW/g

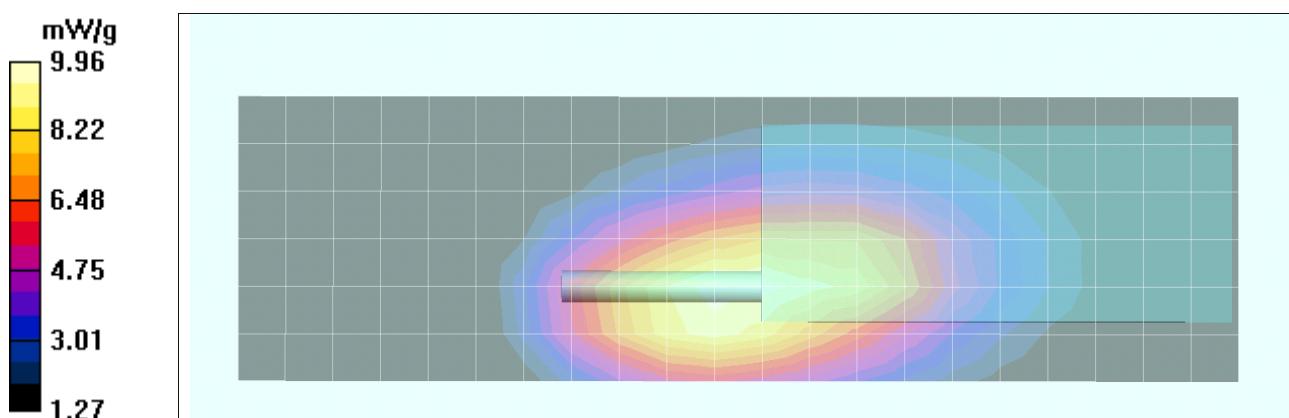
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 83.5 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(1 g) = 9.47 mW/g; SAR(10 g) = 6.68 mW/g**

Maximum value of SAR (measured) = 9.96 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

 Testing and Engineering Services Ltd	Date(s) of Evaluation August 11-16, 2011	Test Report Serial No. 063011OWD-T1107-S90U	Test Report Revision No. Rev. 1.2 (3rd Release)	 IAC-MRA ACCREDITED
	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B15

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.46 mW/g

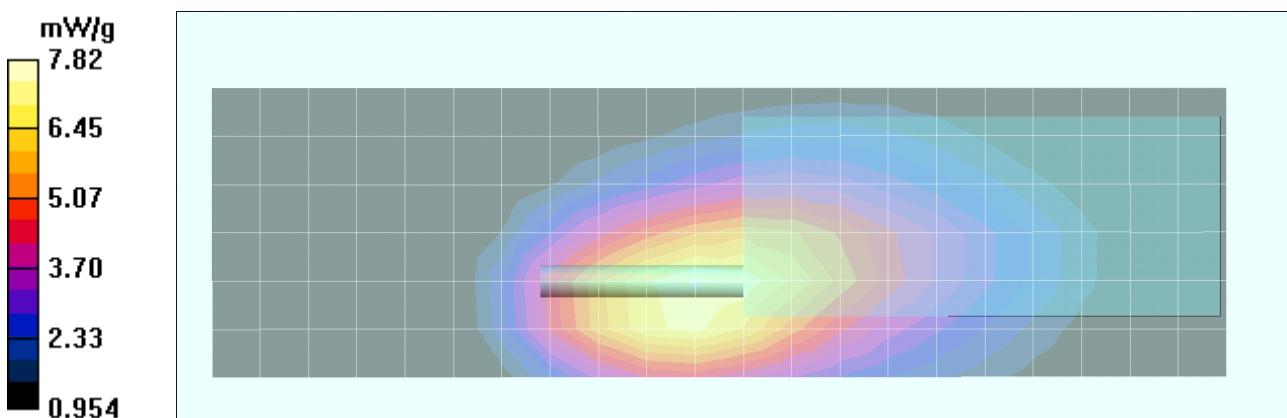
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 73.0 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 11.1 W/kg

**SAR(1 g) = 7.44 mW/g; SAR(10 g) = 5.21 mW/g**

Maximum value of SAR (measured) = 7.82 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 IAC-MRA
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Body SAR Plot B16

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.29 mW/g

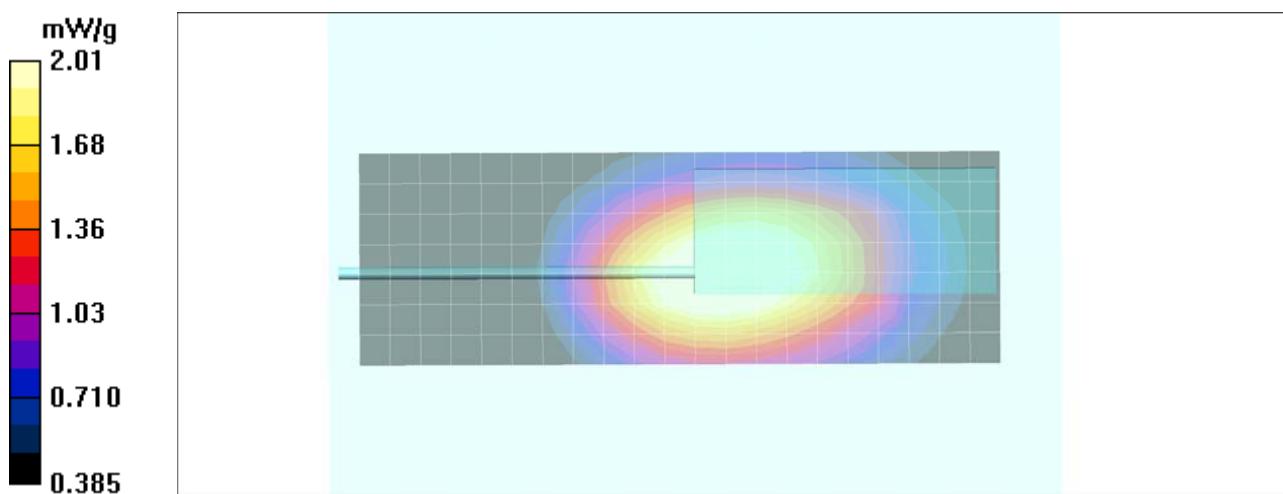
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 44.4 V/m; Power Drift = -0.467 dB

Peak SAR (extrapolated) = 2.70 W/kg

**SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.43 mW/g**

Maximum value of SAR (measured) = 2.01 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

 Testing and Engineering Services Ltd	Date(s) of Evaluation August 11-16, 2011	Test Report Serial No. 063011OWD-T1107-S90U	Test Report Revision No. Rev. 1.2 (3rd Release)	 Test Lab Certificate No. 2470.01
	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B17

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.22 mW/g

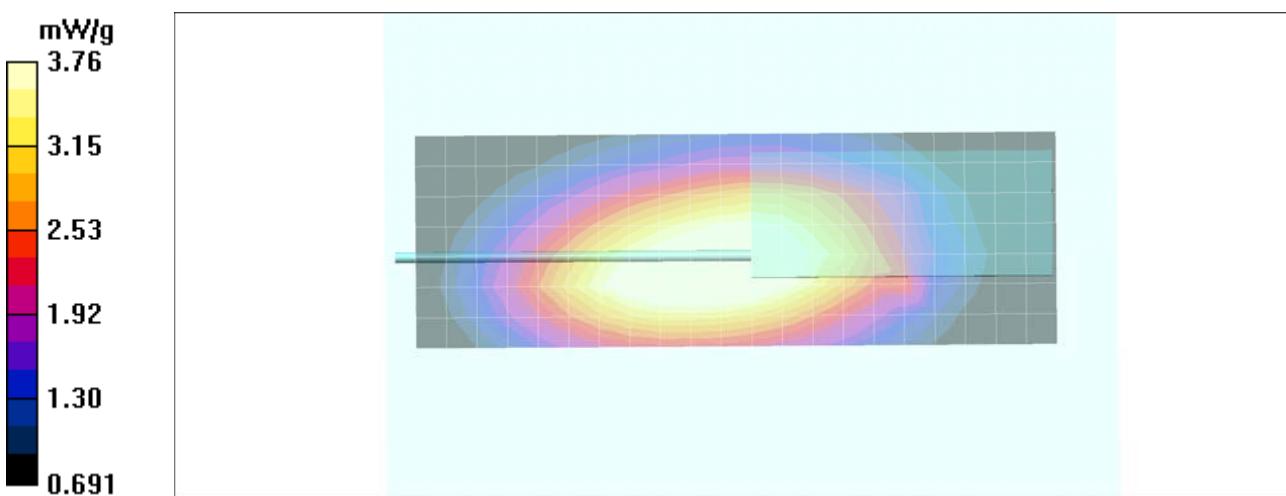
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 60.1 V/m; Power Drift = -0.474 dB

Peak SAR (extrapolated) = 5.03 W/kg

**SAR(1 g) = 3.60 mW/g; SAR(10 g) = 2.7 mW/g**

Maximum value of SAR (measured) = 3.76 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B18

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.48 mW/g

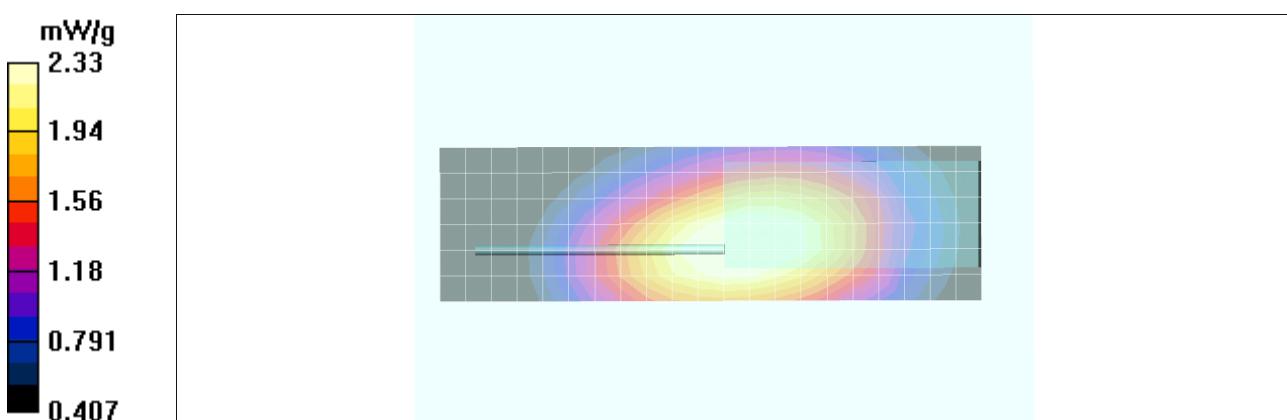
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 47.6 V/m; Power Drift = -0.246 dB

Peak SAR (extrapolated) = 3.16 W/kg

**SAR(1 g) = 2.22 mW/g; SAR(10 g) = 1.64 mW/g**

Maximum value of SAR (measured) = 2.33 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B19

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.20 mW/g

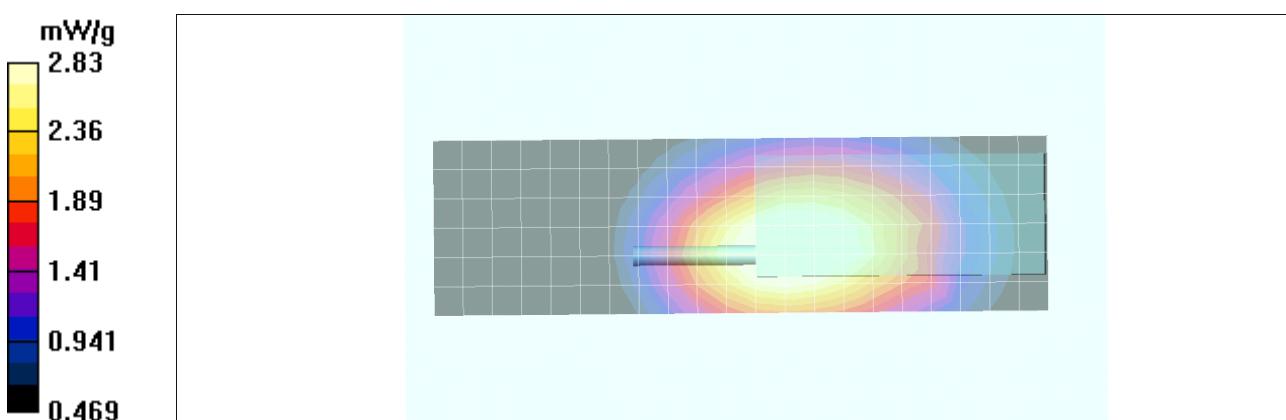
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 50.2 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 3.83 W/kg

**SAR(1 g) = 2.70 mW/g; SAR(10 g) = 1.98 mW/g**

Maximum value of SAR (measured) = 2.83 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B20

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.55 mW/g

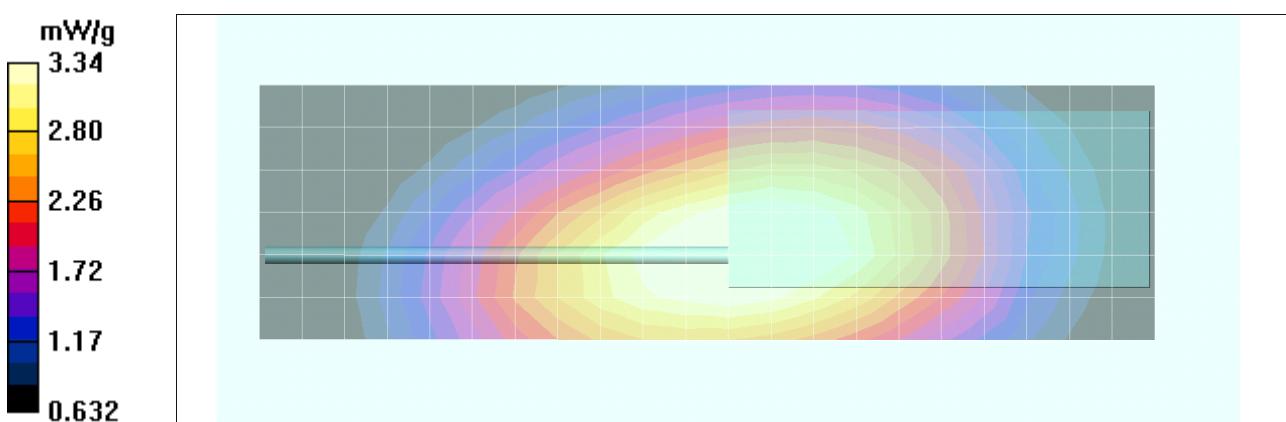
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 56.6 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 4.48 W/kg

**SAR(1 g) = 3.20 mW/g; SAR(10 g) = 2.39 mW/g**

Maximum value of SAR (measured) = 3.34 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B21

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

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

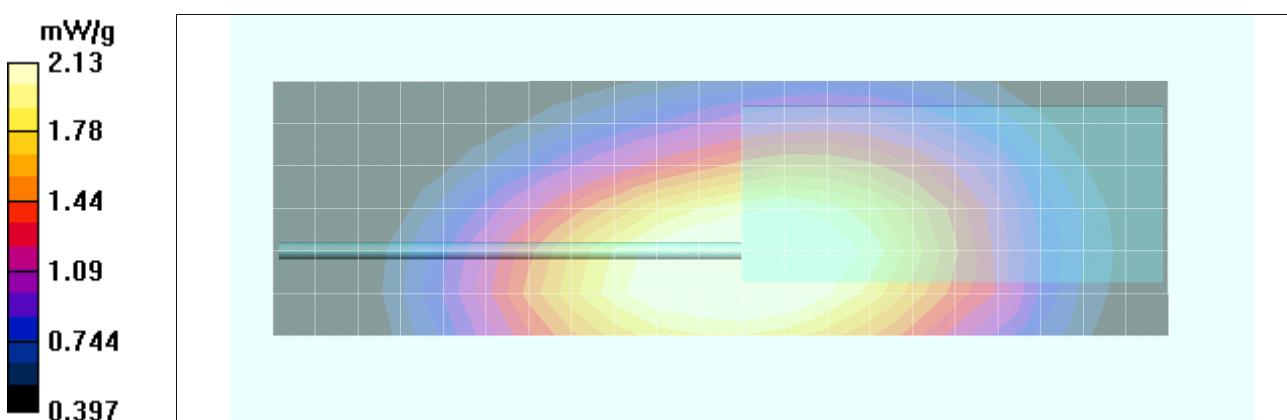
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.5 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 2.88 W/kg

**SAR(1 g) = 2.04 mW/g; SAR(10 g) = 1.51 mW/g**

Maximum value of SAR (measured) = 2.13 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B22

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

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

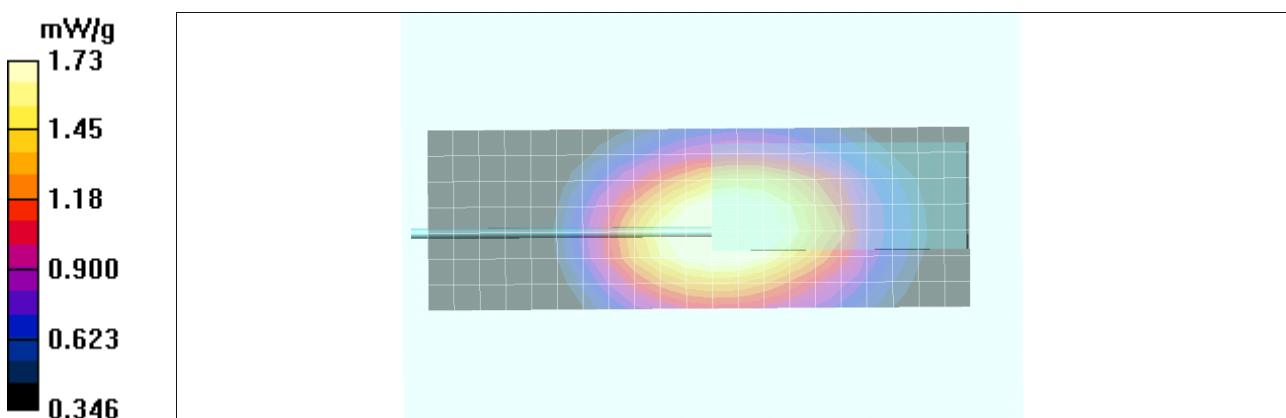
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 42.5 V/m; Power Drift = -0.478 dB

Peak SAR (extrapolated) = 2.30 W/kg

**SAR(1 g) = 1.66 mW/g; SAR(10 g) = 1.25 mW/g**

Maximum value of SAR (measured) = 1.73 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B23

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.97 mW/g

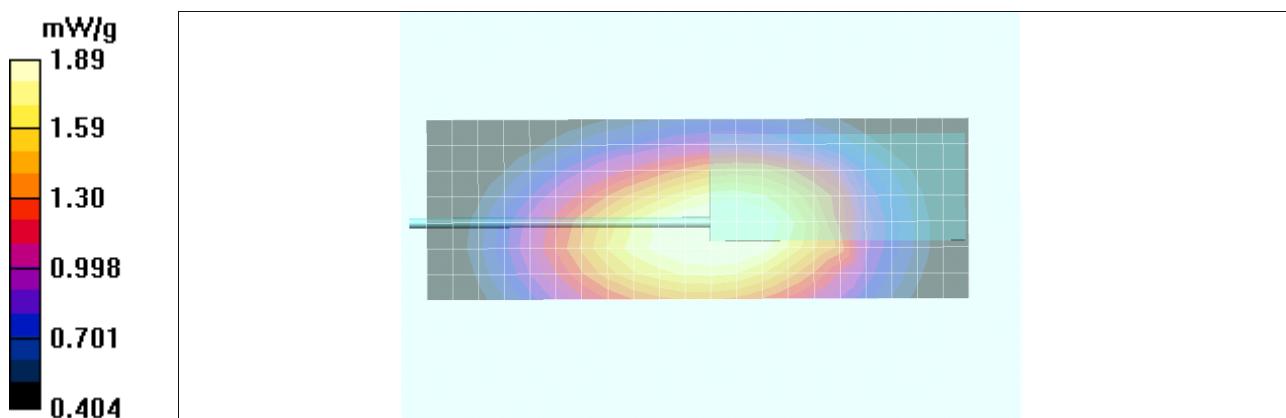
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.0 V/m; Power Drift = -0.196 dB

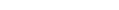
Peak SAR (extrapolated) = 2.51 W/kg

**SAR(1 g) = 1.82 mW/g; SAR(10 g) = 1.38 mW/g**

Maximum value of SAR (measured) = 1.89 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B24

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.21 mW/g

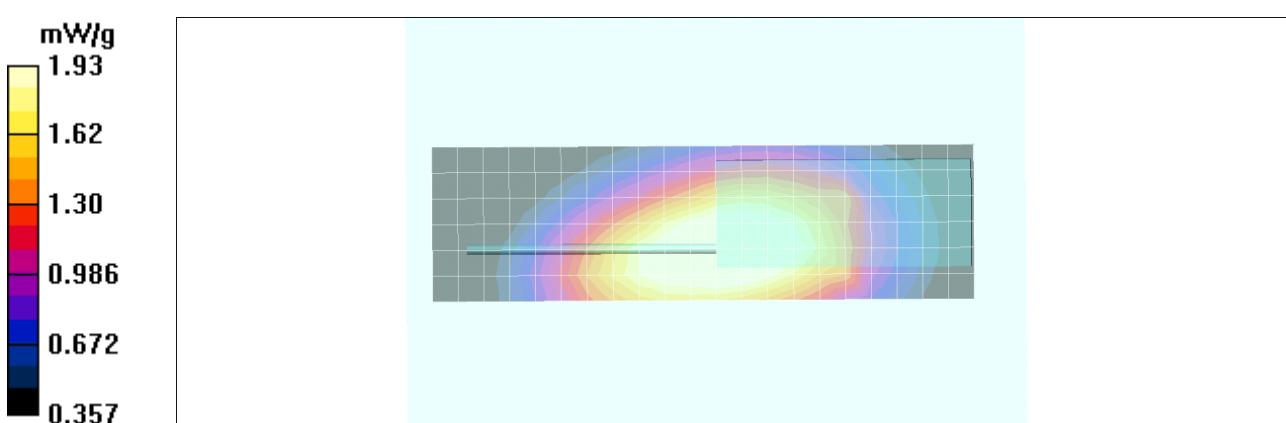
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 42.3 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 2.60 W/kg

**SAB(1 g) = 1.85 mW/g; SAB(10 g) = 1.38 mW/g**

Maximum value of SAR (measured) = 1.93 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B25

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.51 mW/g

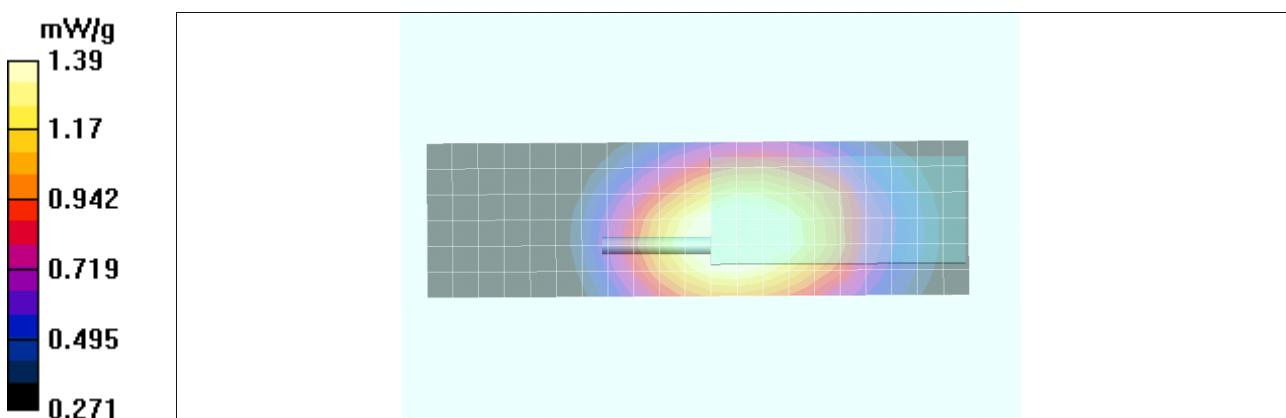
**Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm**

Reference Value = 37.8 V/m; Power Drift = -0.391 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 1.34 mW/g; SAR(10 g) = 1.01 mW/g**

Maximum value of SAR (measured) = 1.39 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B26

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.14 mW/g

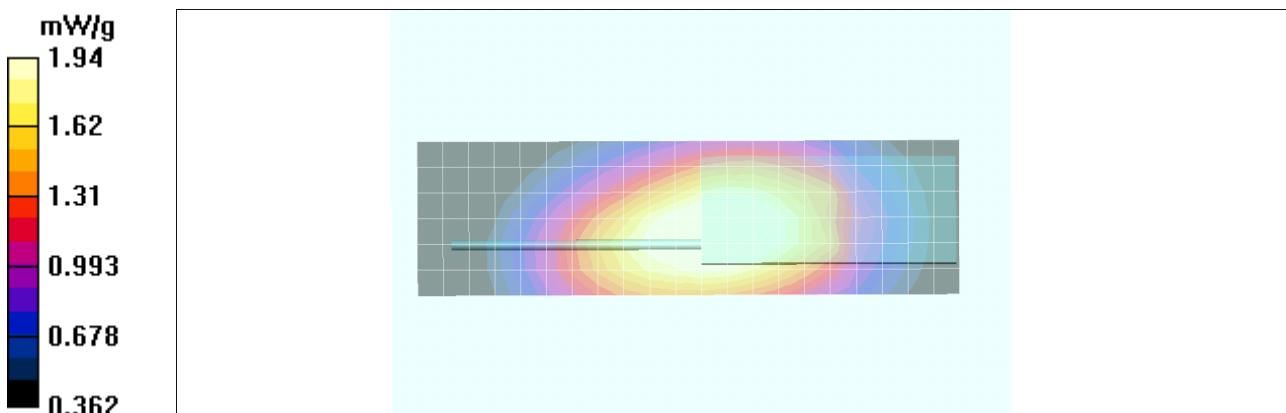
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 45.7 V/m; Power Drift = -0.389 dB

Peak SAR (extrapolated) = 2.61 W/kg

**SAR(1 g) = 1.86 mW/g; SAR(10 g) = 1.39 mW/g**

Maximum value of SAR (measured) = 1.94 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Body SAR Plot B27

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

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

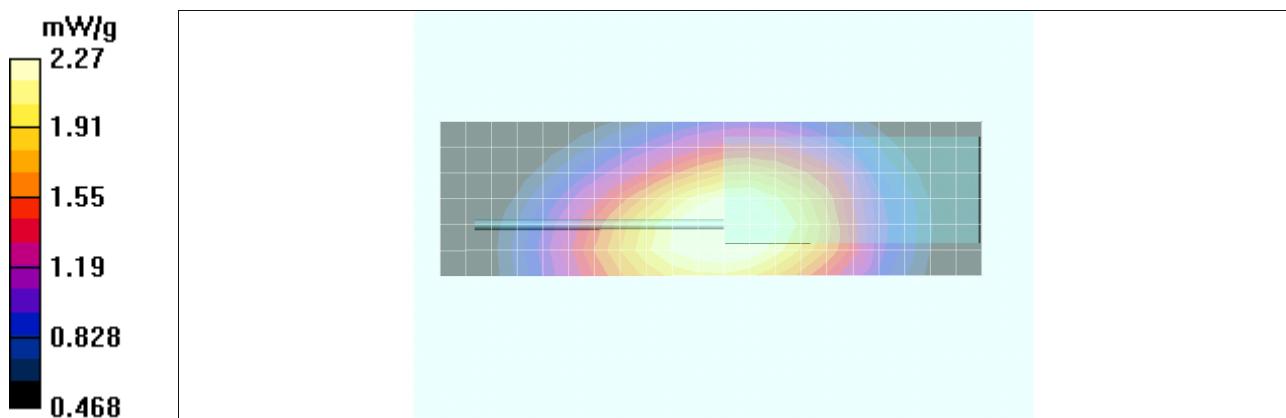
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 46.6 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 3.01 W/kg

**SAR(1 g) = 2.18 mW/g; SAR(10 g) = 1.65 mW/g**

Maximum value of SAR (measured) = 2.27 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 IAC-MRA
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B28

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.54 mW/g

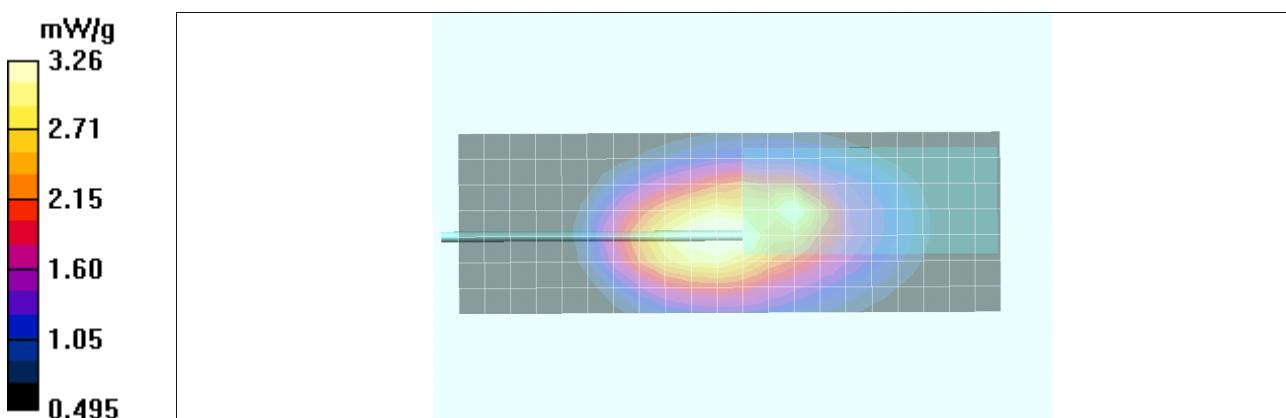
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.1 V/m; Power Drift = -0.573 dB

Peak SAR (extrapolated) = 4.77 W/kg

**SAR(1 g) = 3.06 mW/g; SAR(10 g) = 2.16 mW/g**

Maximum value of SAR (measured) = 3.26 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B29

Date Tested: 08/11/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.7C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 58$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (8x23x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.26 mW/g

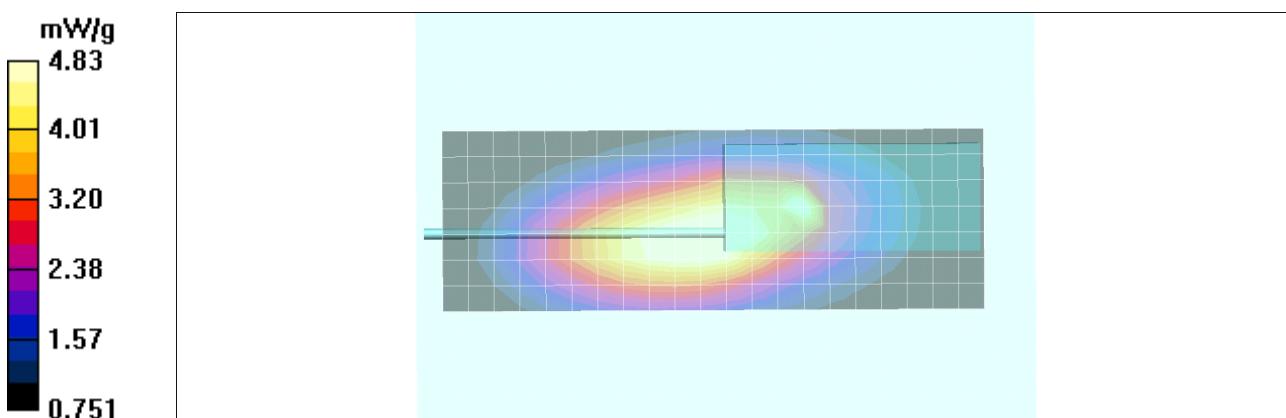
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 65.5 V/m; Power Drift = -0.230 dB

Peak SAR (extrapolated) = 6.66 W/kg

**SAR(1 g) = 4.62 mW/g; SAR(10 g) = 3.39 mW/g**

Maximum value of SAR (measured) = 4.83 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B30

Date Tested: 08/12/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.42 mW/g

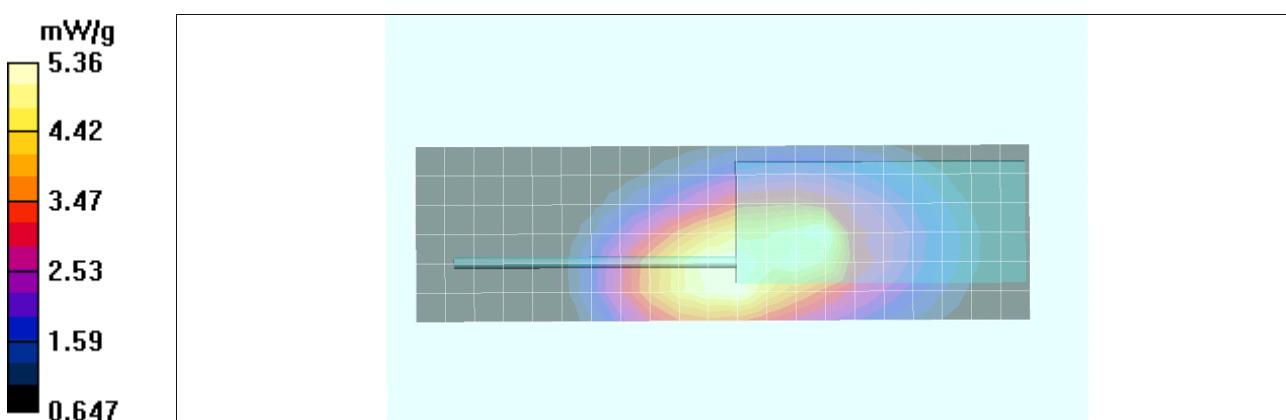
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 66.3 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 8.73 W/kg

**SAR(1 g) = 5.03 mW/g; SAR(10 g) = 3.37 mW/g**

Maximum value of SAR (measured) = 5.36 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B31

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.90 mW/g

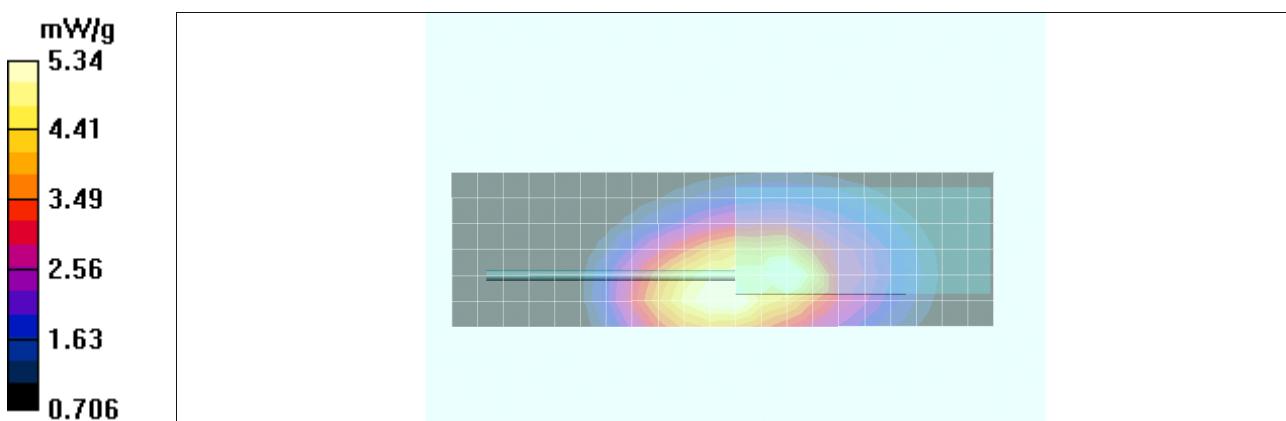
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 65.6 V/m; Power Drift = 0.0186 dB

Peak SAR (extrapolated) = 7.57 W/kg

**SAR(1 g) = 4.78 mW/g; SAR(10 g) = 3.4 mW/g**

Maximum value of SAR (measured) = 5.34 mW/g

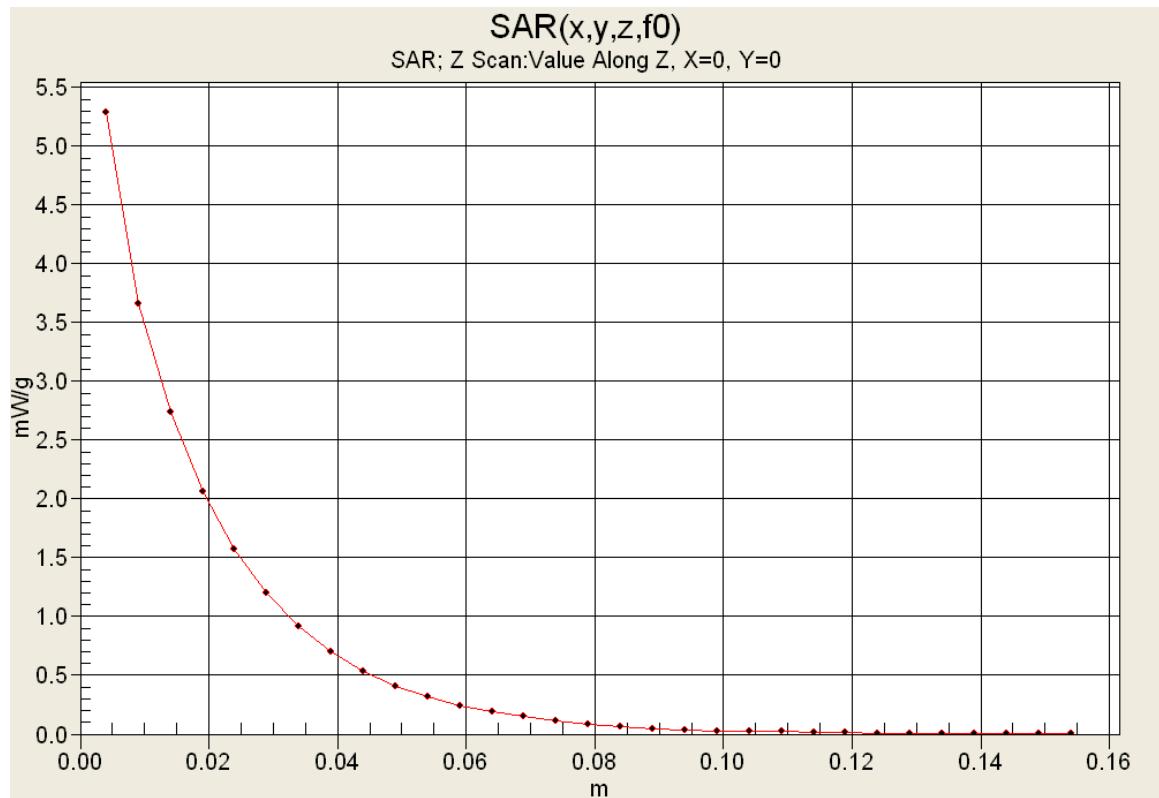


<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Z-axis Scan



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	 HARRIS
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B32

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.60 mW/g

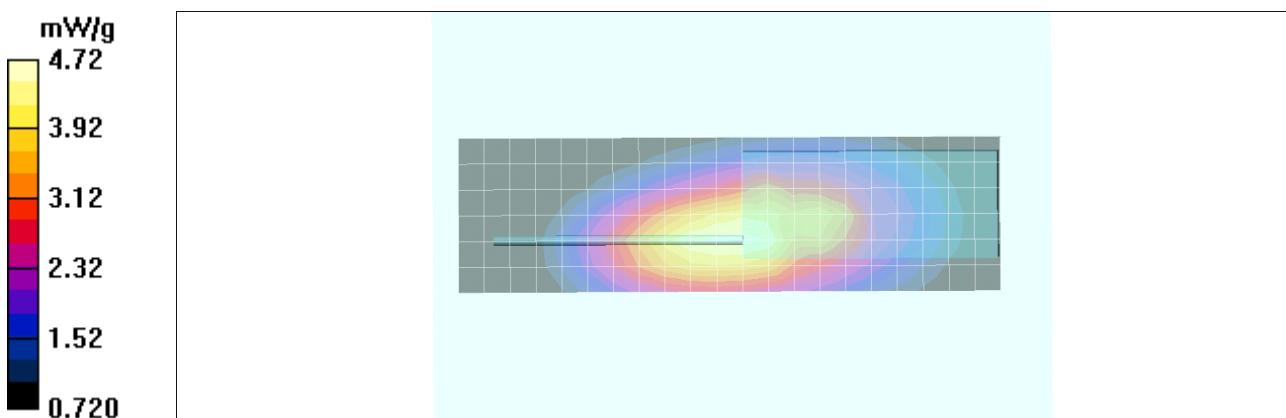
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 65.4 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 6.70 W/kg

**SAR(1 g) = 4.51 mW/g; SAR(10 g) = 3.25 mW/g**

Maximum value of SAR (measured) = 4.72 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			

 <b>Celltech</b> <small>Testing and Engineering Services Ltd.</small>	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 <b>ilac-MRA</b>  <b>ACCREDITED</b>
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B33

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.57 mW/g

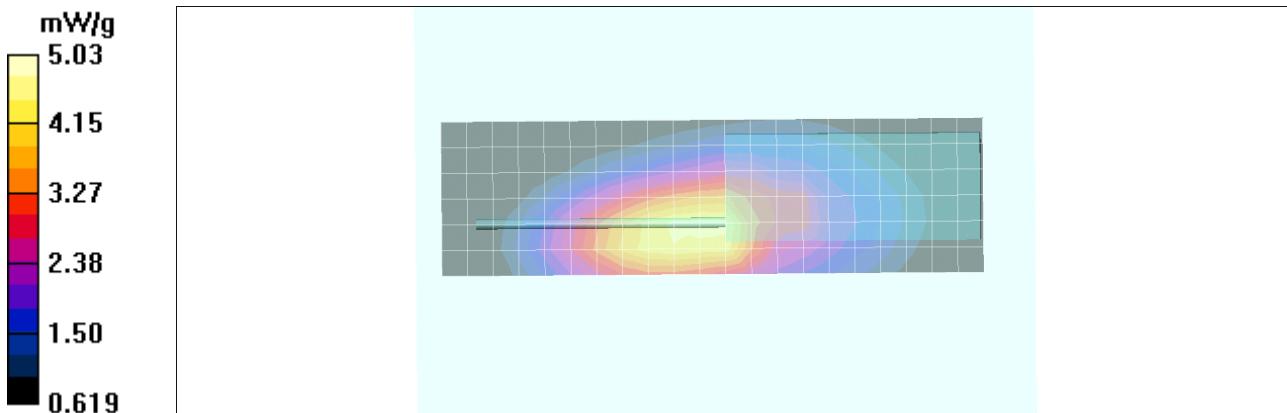
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 59.5 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 7.97 W/kg

**SAR(1 g) = 4.70 mW/g; SAR(10 g) = 3.25 mW/g**

Maximum value of SAR (measured) = 5.03 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

## Body SAR Plot B34

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.41 mW/g

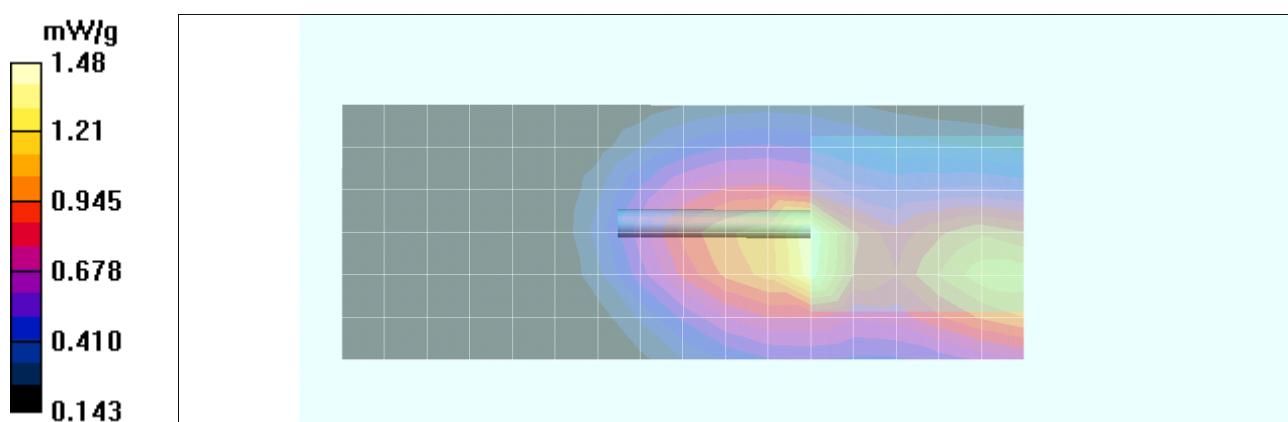
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.0 V/m; Power Drift = -0.336 dB

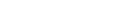
Peak SAR (extrapolated) = 3.26 W/kg

**SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.834 mW/g**

Maximum value of SAR (measured) = 1.48 mW/g



<b>Applicant:</b>	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
<b>DUT Type:</b>	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot B35

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 430$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.44 mW/g

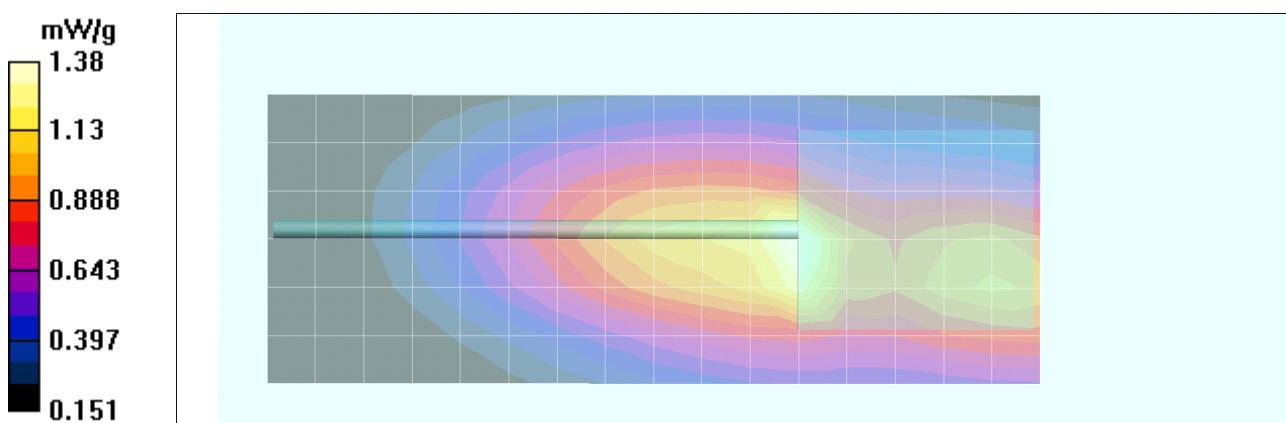
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.7 V/m; Power Drift = -0.466 dB

Peak SAR (extrapolated) = 2.61 W/kg

**SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.808 mW/g**

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



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B36

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.36 mW/g

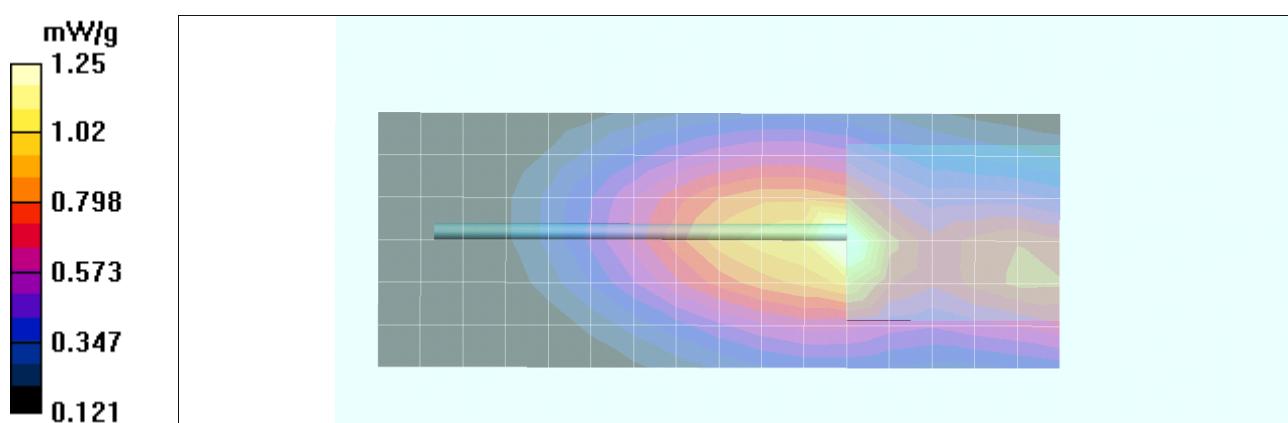
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 38.1 V/m; Power Drift = -0.704 dB

Peak SAR (extrapolated) = 2.48 W/kg

**SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.702 mW/g**

Maximum value of SAR (measured) = 1.25 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot B37

Date Tested: 08/15/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 440$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 56.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x17x1):** Measurement grid: dx=15mm, dy=15mm

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

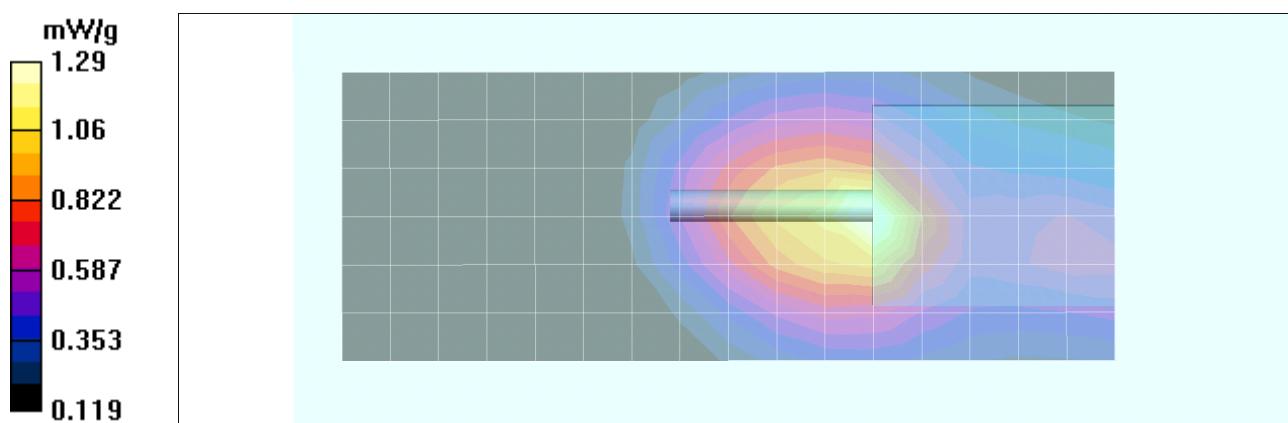
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.9 V/m; Power Drift = -0.550 dB

Peak SAR (extrapolated) = 2.53 W/kg

**SAR(1 g) = 1.20 mW/g; SAR(10 g) = 0.730 mW/g**

Maximum value of SAR (measured) = 1.29 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot A1

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.8 mW/g

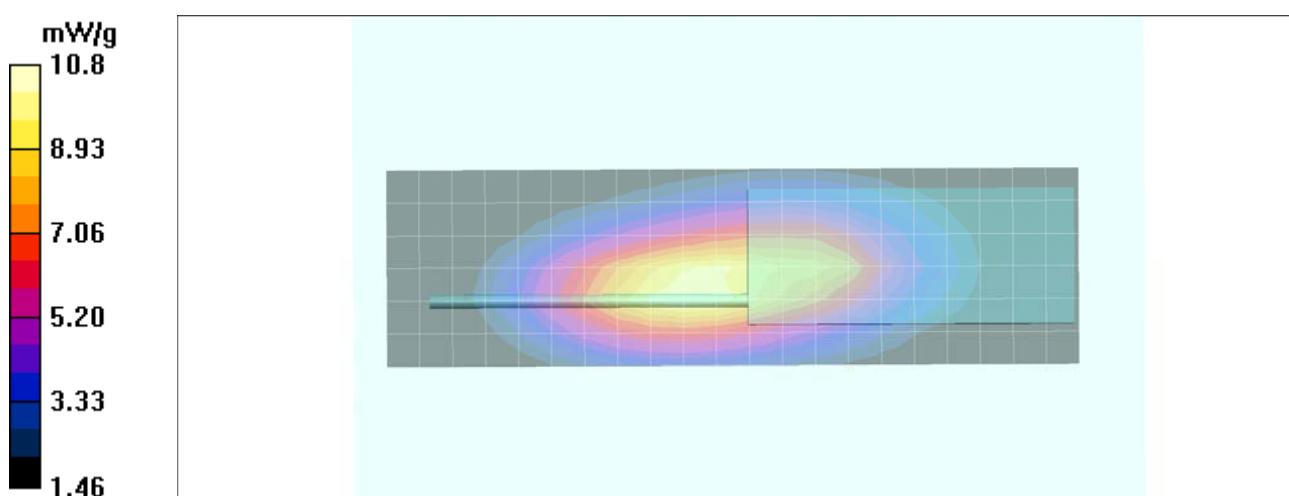
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 96.9 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 15.4 W/kg

**SAR(1 g) = 10.3 mW/g; SAR(10 g) = 7.23 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot A2

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 11.1 mW/g

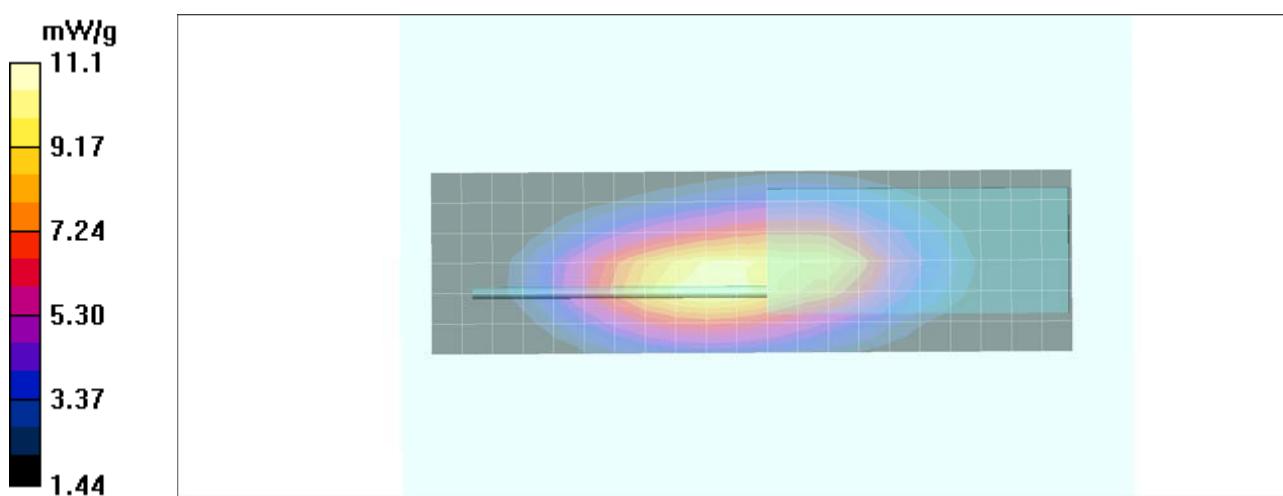
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 96.5 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 16.0 W/kg

**SAR(1 g) = 10.6 mW/g; SAR(10 g) = 7.36 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot A3

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.6 mW/g

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

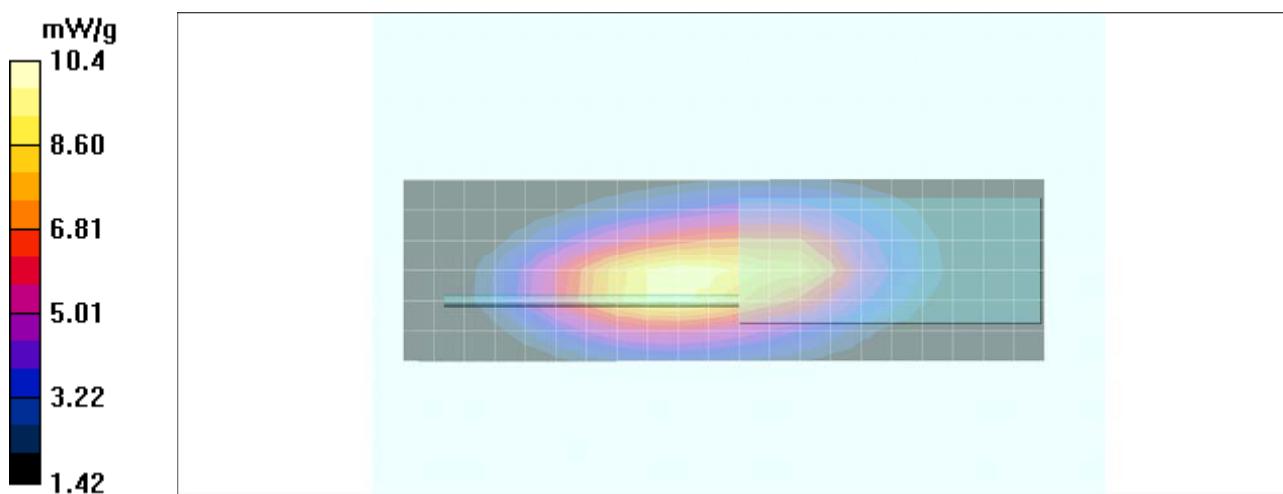
Reference Value = 96.2 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 15.0 W/kg

**SAR(1 g) = 9.90 mW/g; SAR(10 g) = 6.93 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.4 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot A4

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.66 mW/g

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

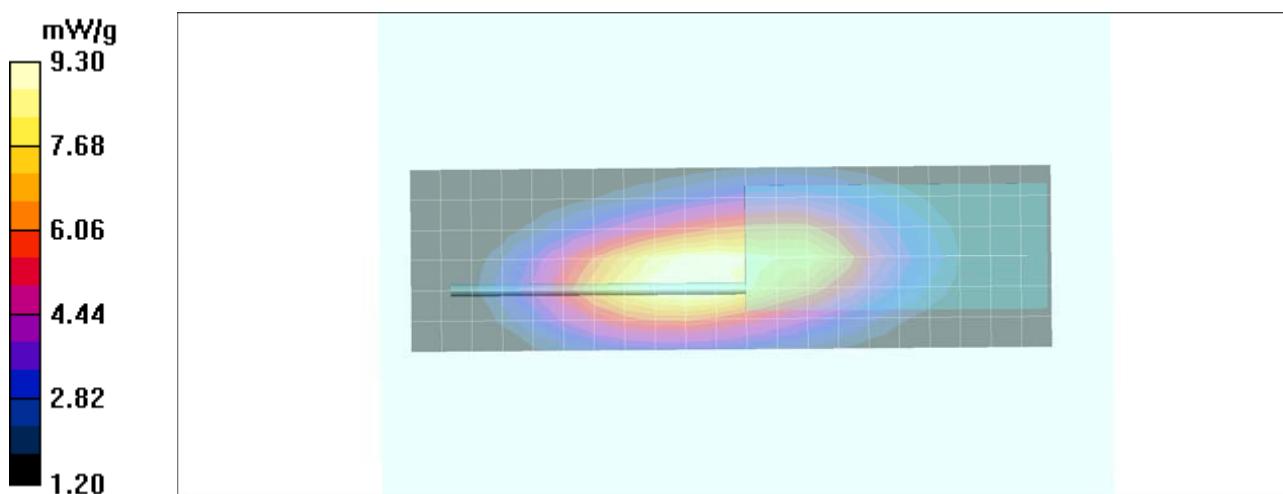
Reference Value = 92.7 V/m; Power Drift = -0.289 dB

Peak SAR (extrapolated) = 13.4 W/kg

**SAR(1 g) = 8.86 mW/g; SAR(10 g) = 6.19 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.30 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot A5

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 7.55 mW/g

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

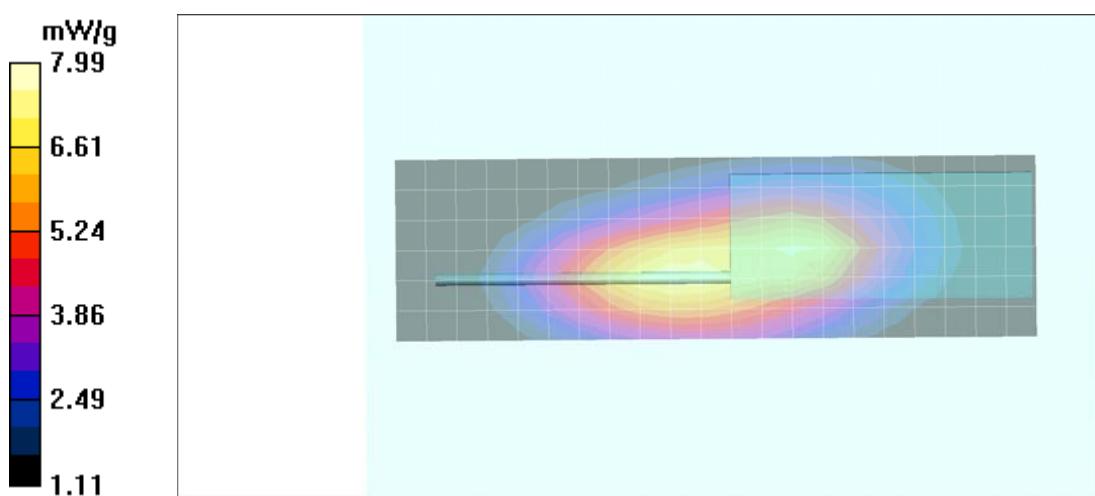
Reference Value = 84.0 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 11.5 W/kg

**SAR(1 g) = 7.62 mW/g; SAR(10 g) = 5.35 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 7.99 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			

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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot A6

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.62 mW/g

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

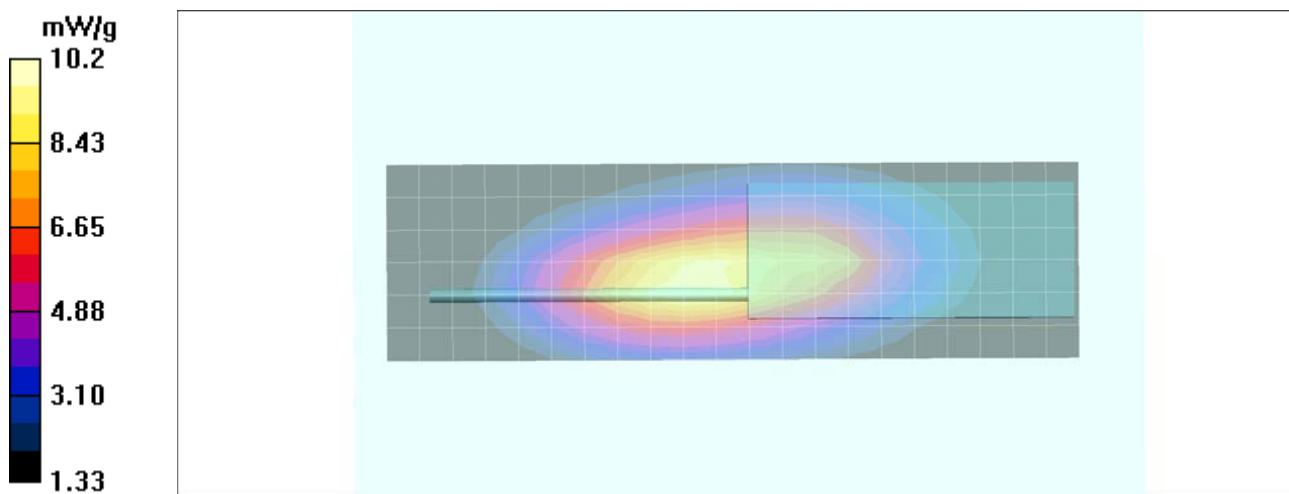
Reference Value = 95.1 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 14.6 W/kg

**SAR(1 g) = 9.70 mW/g; SAR(10 g) = 6.8 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.2 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot A7

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 8.97 mW/g

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

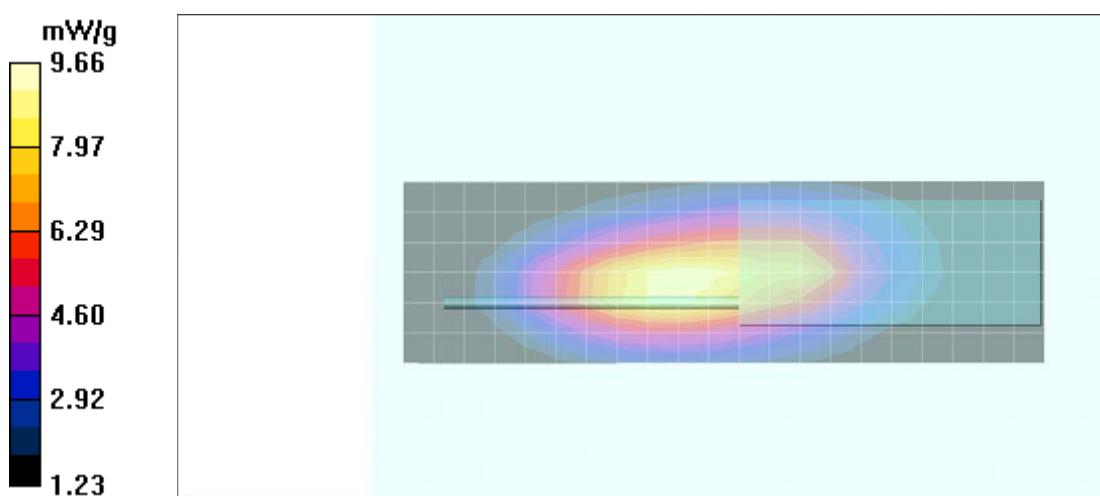
Reference Value = 94.0 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 13.9 W/kg

**SAR(1 g) = 9.20 mW/g; SAR(10 g) = 6.42 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.66 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot A8

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.17 mW/g

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

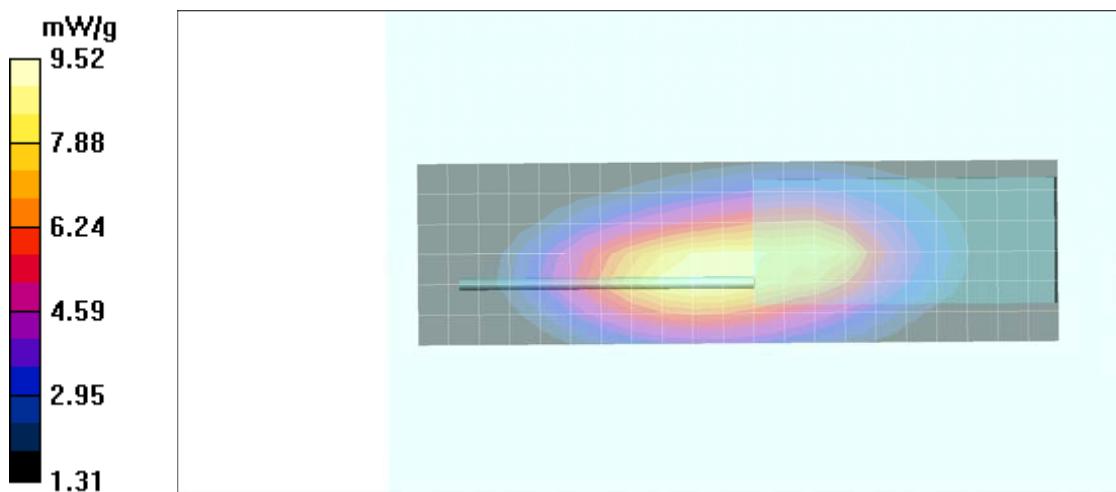
Reference Value = 92.8 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 13.6 W/kg

**SAR(1 g) = 9.08 mW/g; SAR(10 g) = 6.4 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.52 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L	406.1 - 470.0 MHz			
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	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot A9

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.19 mW/g

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

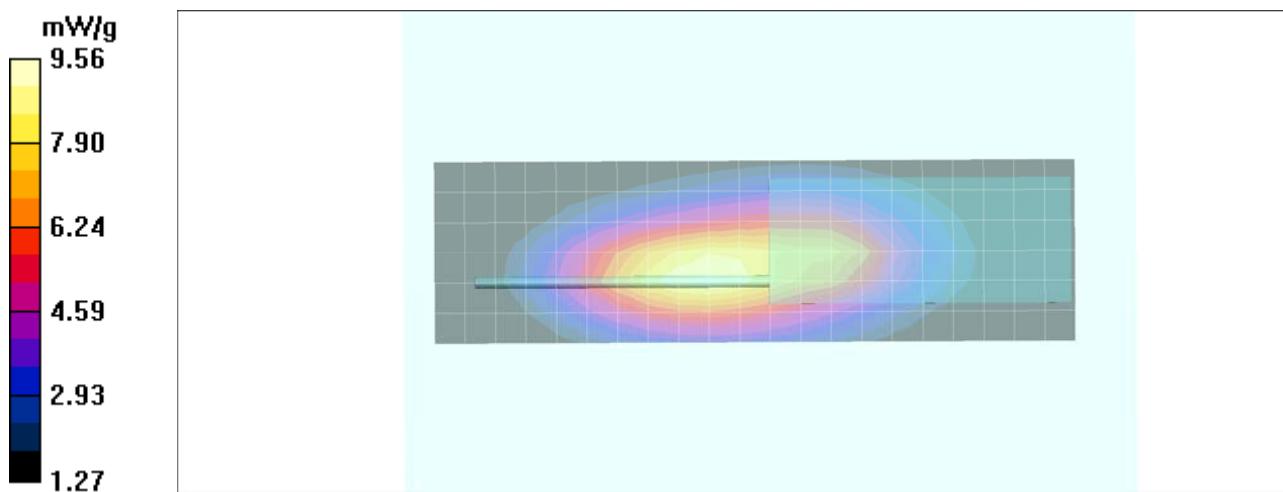
Reference Value = 90.0 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 13.7 W/kg

**SAR(1 g) = 9.07 mW/g; SAR(10 g) = 6.35 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.56 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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	Test Report Issue Date October 05, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

## Body SAR Plot A10

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.33 mW/g

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

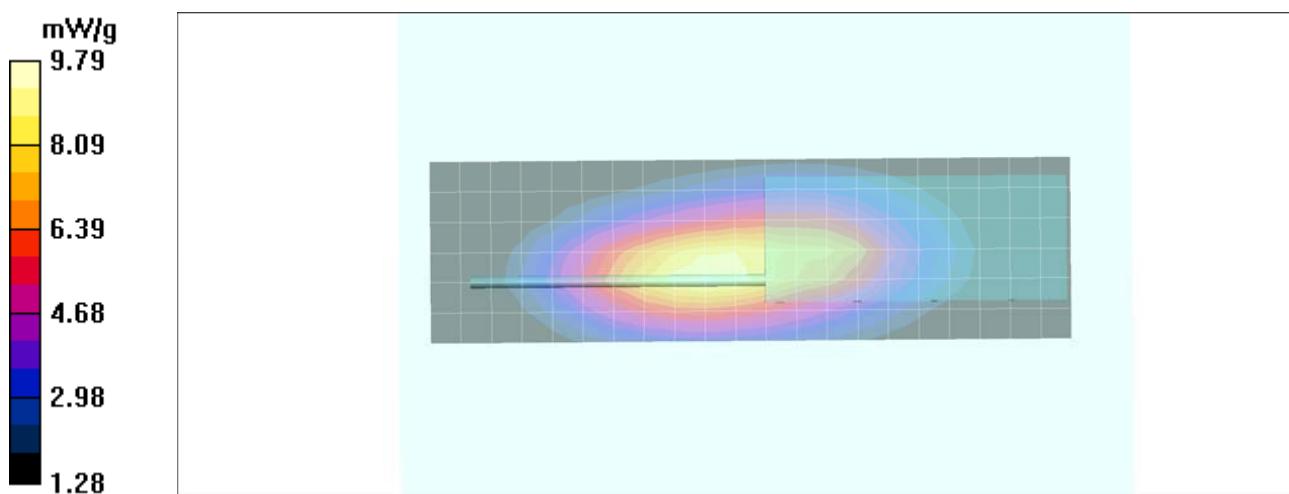
Reference Value = 91.4 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(1 g) = 9.30 mW/g; SAR(10 g) = 6.5 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 9.79 mW/g



Applicant:	HARRIS Corporation	FCC ID:	OWDTR-0070-E		IC:	3636B-0070	
DUT Type:	Portable UHF-L PTT Radio Transceiver	Model:	XG-75 UHF-L		406.1 - 470.0 MHz		

 <b>Celltech</b> <small>Testing and Engineering Services Ltd.</small>	<u>Date(s) of Evaluation</u> August 11-16, 2011	<u>Test Report Serial No.</u> 063011OWD-T1107-S90U	<u>Test Report Revision No.</u> Rev. 1.2 (3rd Release)	 <b>ilac-MRA</b>  <b>ACCREDITED</b>
	<u>Test Report Issue Date</u> October 05, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

## Body SAR Plot A11

Date Tested: 08/16/2011

**DUT: Harris XG-75; Type: UHF PTT Radio Transceiver; Serial: T2-UL-112**

Ambient Temp: 23C; Fluid Temp: 22.3C; Barometric Pressure: 101.1 kPa; Humidity: 38%

## Communication System: CW

Frequency: 455 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 455$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Area Scan (7x22x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 10.0 mW/g

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

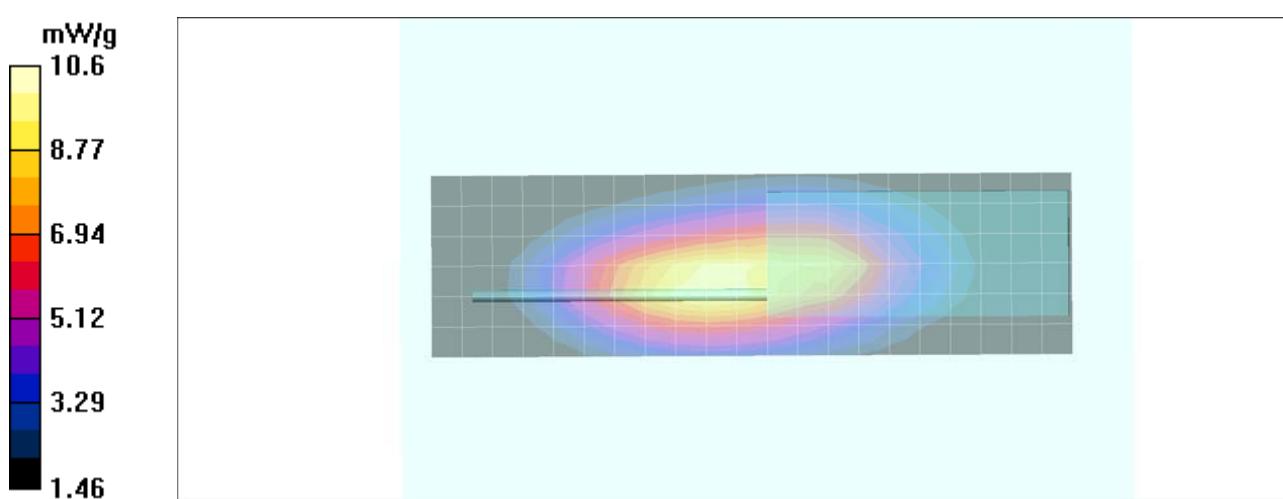
Reference Value = 97.0 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 15.1 W/kg

**SAR(1 g) ≡ 10.1 mW/g; SAR(10 g) ≡ 7.11 mW/g**

SAR(1 g) = 10.11 mW/g, SAR(10 g) = 7.11 mW/g  
Info: Interpolated medium parameters used for SAR evaluation

Maximum value of SAB (measured) = 10.6 mW/g



<b>Applicant:</b>	<b>HARRIS Corporation</b>	<b>FCC ID:</b>	<b>OWDTR-0070-E</b>	<b>IC:</b>	<b>3636B-0070</b>	
<b>DUT Type:</b>	<b>Portable UHF-L PTT Radio Transceiver</b>		<b>Model:</b>	<b>XG-75 UHF-L</b>	<b>406.1 - 470.0 MHz</b>	
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