

	Date(s) of Evaluation Sept. 01-02 & 20, 2011	Test Report Serial No. 060111AQZ-T1102-S90U	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
¢.	Test Report Issue Date October 25, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

**APPENDIX A - SAR MEASUREMENT DATA** 

Applicant:			FCC ID:	FCC ID: AQZ-XG-100P00			IC:	122D-XG100P00	HARRIS
DUT Type:			Model: Unity XG-100P		(G-100P	UHF Band 406.1-512 MHz			
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Date Tested: 09/20/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 23.2C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.83 mho/m;  $\epsilon_r$  = 45.6;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011

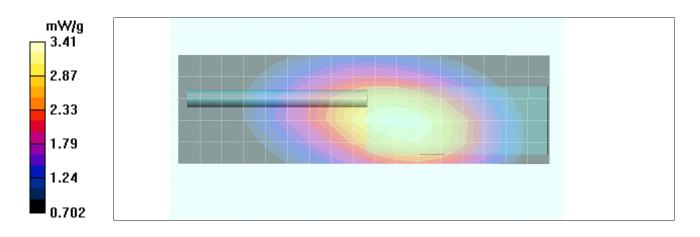
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.36 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 63.3 V/m; Power Drift = -0.215 dB Peak SAR (extrapolated) = 4.40 W/kg SAR(1 g) = 3.26 mW/g; SAR(10 g) = 2.48 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.41 mW/g



Applicant:	icant: HARRIS Corporation		FCC ID:	FCC ID: AQZ-XG-100P00		IC:	122D-XG100P00	HARRIS	
DUT Type:	pe: Portable Multi-band PTT Radio Transceiver		Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz			
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Date Tested: 09/20/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 23.2C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.83 mho/m;  $\epsilon_r$  = 45.6;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011

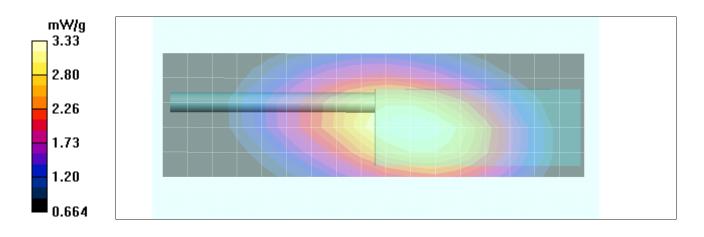
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.38 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 61.6 V/m; Power Drift = -0.083 dB Peak SAR (extrapolated) = 4.33 W/kg SAR(1 g) = 3.19 mW/g; SAR(10 g) = 2.41 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.33 mW/g



Applicant:	licant: HARRIS Corporation FCC		FCC ID:	AC	AQZ-XG-100P00 IC:		IC:	122D-XG100P00	HARRIS
DUT Type:	ype: Portable Multi-band PTT Radio Transceiver		Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz			
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Date Tested: 09/20/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 23.2C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.83 mho/m;  $\epsilon_r$  = 45.6;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011

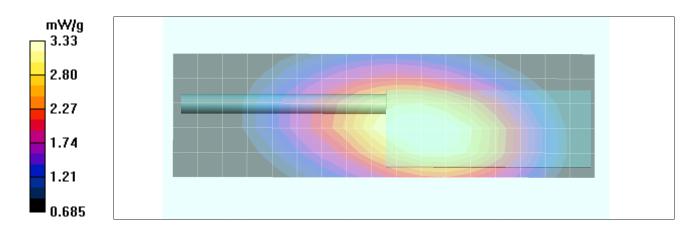
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.44 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 62.7 V/m; Power Drift = -0.295 dB Peak SAR (extrapolated) = 4.32 W/kg SAR(1 g) = 3.19 mW/g; SAR(10 g) = 2.42 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.33 mW/g



Applicant:	plicant: HARRIS Corporation FC		FCC ID:	AQZ-XG-100P00 IC:		IC:	122D-XG100P00	HARRIS	
DUT Type:	Type: Portable Multi-band PTT Radio Transceiver		Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz			
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Date Tested: 09/20/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 23.2C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.83 mho/m;  $\epsilon_r$  = 45.6;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011

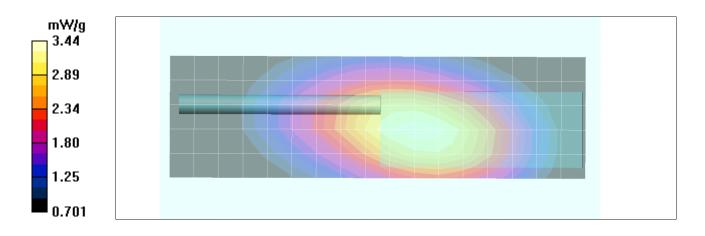
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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

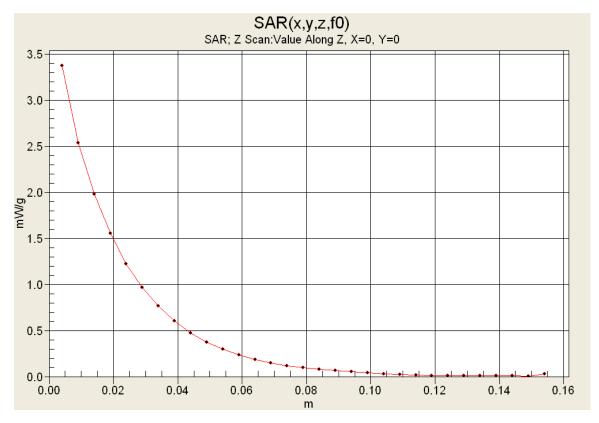
Area Scan (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.40 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 62.7 V/m; Power Drift = -0.103 dB Peak SAR (extrapolated) = 4.46 W/kg SAR(1 g) = 3.29 mW/g; SAR(10 g) = 2.49 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 3.44 mW/g



Applicant:	HARRIS Corporation		FCC ID:	: AQZ-XG-100P00		IC:	122D-XG100P00	HARRIS	
DUT Type:	e: Portable Multi-band PT		Radio Transceiver Model: Un		Unity >	(G-100P	UHF Band 406.1-512 MHz		
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Celltech	Date(s) of Evaluation Sept. 01-02 & 20, 2011	Test Report Serial No. 060111AQZ-T1102-S90U	Test Report Revision No. Rev. 1.1 (2nd Release)	
Testing and Engineering Services Lat:	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	October 25, 2011	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

# Z-Axis Scan



Applicant:	HARRIS Corporation		FCC ID:	D: AQZ-XG-100P00		IC:	122D-XG100P00	HARRIS	
DUT Type:	Portable Multi-band PT		Radio Transo	Radio Transceiver Model: Unity		Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/20/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 23.2C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: HSL450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.83 mho/m;  $\epsilon_r$  = 45.6;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.3, 7.3, 7.3); Calibrated: 22/06/2011

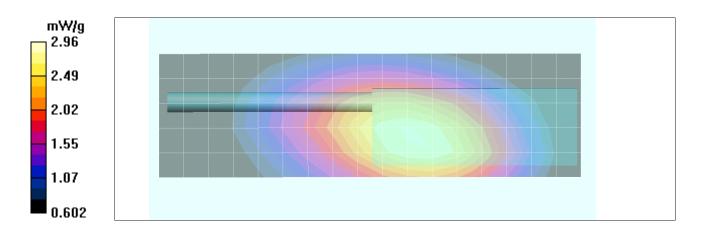
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.83 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 = -1.09 dB Peak SAR (extrapolated) = 3.83 W/kg SAR(1 g) = 2.78 mW/g; SAR(10 g) = 2.11 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.96 mW/g



Applicant:	plicant: HARRIS Corporation		FCC ID:	FCC ID: AQZ-XG-100P00		IC:	122D-XG100P00	HARRIS	
DUT Type:	ype: Portable Multi-band PTT Radio Transceiver		Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz			
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Date Tested: 09/1/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 24C; Fluid Temp: 23.5C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.91 mho/m;  $\epsilon_r$  = 57.1;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

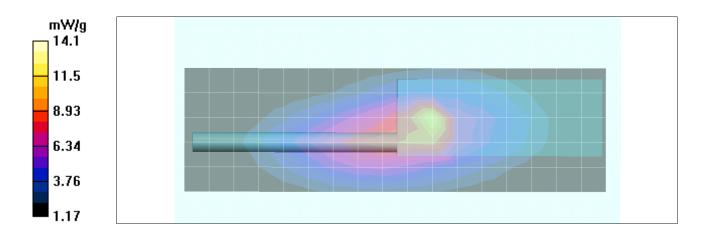
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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

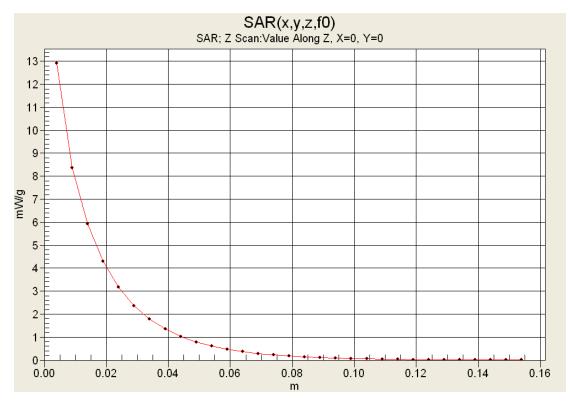
Area Scan (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 11.8 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 96.5 V/m; Power Drift = 0.015 dB Peak SAR (extrapolated) = 29.5 W/kg SAR(1 g) = 13.9 mW/g; SAR(10 g) = 8.6 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 14.1 mW/g



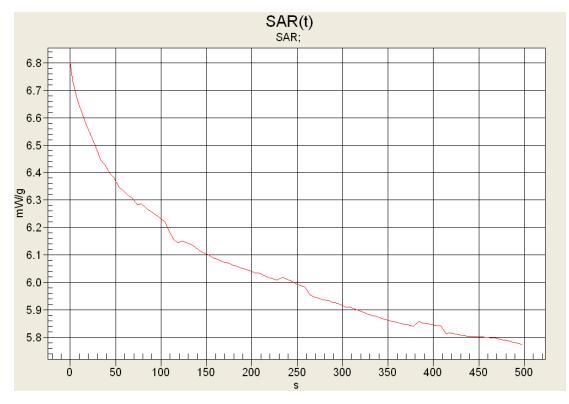
Applicant:	plicant: HARRIS Corporation		FCC ID:	FCC ID: AQZ-XG-100P00		IC:	122D-XG100P00	HARRIS	
DUT Type:	Type: Portable Multi-band PTT Radio Transceiver		Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz			
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Celltech	Date(s) of Evaluation Sept. 01-02 & 20, 2011	Test Report Serial No. 060111AQZ-T1102-S90U	Test Report Revision No. Rev. 1.1 (2nd Release)	
Testing and Engineering Services Lat:	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	October 25, 2011	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

## Z-Axis Scan



# SAR-Versus Time



Applicant:	PIP IN IN INTERNITE		FCC ID:	AC	Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:			Model: Unity XG-100P		(G-100P	UHF Band 406.1-512 MHz			
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 423.5 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 423.5 MHz;  $\sigma$  = 0.92 mho/m;  $\epsilon_r$  = 57;  $\rho$  = 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

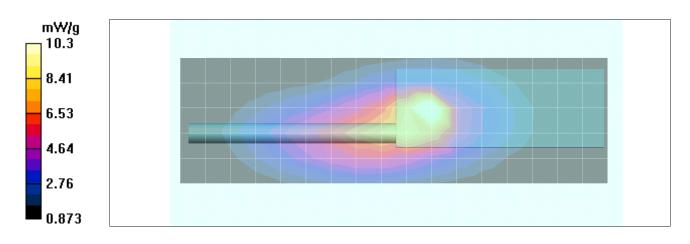
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Area Scan (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 11.6 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 88.4 V/m; Power Drift = -0.581 dB

Peak SAR (extrapolated) = 21.1 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 6.22 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 10.3 mW/g



Applicant:	HARF	RIS Corporation	FCC ID:	AQZ-XG-100P00		P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	able Multi-band PTT Radio Transceiver			Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 441 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 441 MHz;  $\sigma$  = 0.921 mho/m;  $\epsilon_r$  = 57.2;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

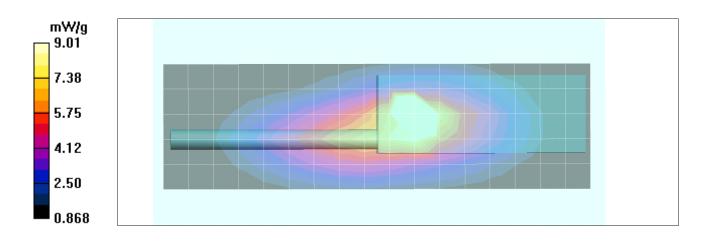
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 19.2 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 83.7 V/m; Power Drift = -0.859 dB Peak SAR (extrapolated) = 16.9 W/kg SAR(1 g) = 8.74 mW/g; SAR(10 g) = 5.46 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 9.01 mW/g



Applicant:	HARR	RRIS Corporation FCC ID:			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Portal	ole Multi-band PTT	Radio Transo	ceiver	Model:	Model: Unity XG-100P		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 458.5 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 458.5 MHz;  $\sigma$  = 0.93 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

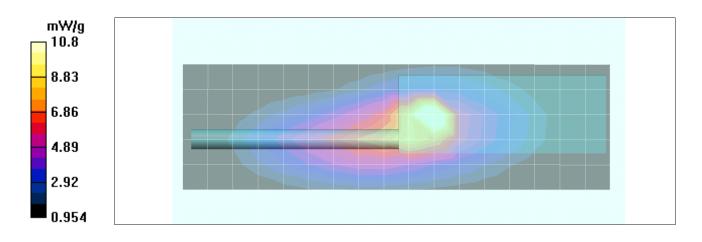
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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

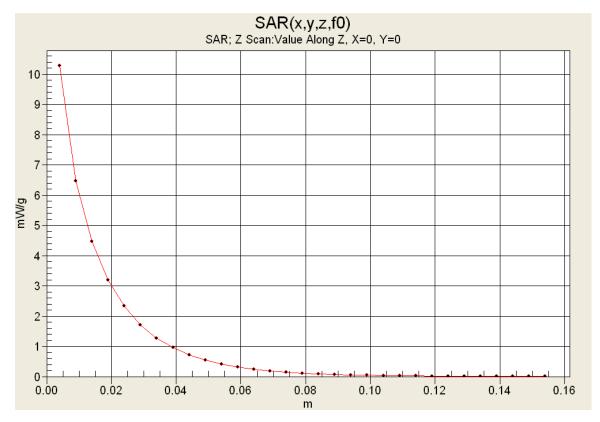
Area Scan (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 13.1 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 84.9 V/m; Power Drift = -0.098 dB Peak SAR (extrapolated) = 22.6 W/kg SAR(1 g) = 10.5 mW/g; SAR(10 g) = 6.42 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 10.8 mW/g



Applicant:	HARF	RRIS Corporation FCC ID:			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Model: Unity XG-10		UHF Band 406.1-512 MHz	
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Celltech	Date(s) of Evaluation Sept. 01-02 & 20, 2011	Test Report Serial No. 060111AQZ-T1102-S90U	Test Report Revision No. Rev. 1.1 (2nd Release)	
Testing and Engineering Services Lat:	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	October 25, 2011	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

# Z-Axis Scan



Applicant:	HARF	RRIS Corporation FCC ID:		AQZ-XG-100P00 IC			00P00 IC: 122D-XG100P00		HARRIS
DUT Type:	Porta	ble Multi-band PTT Radio Transceiver			Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 476 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 476 MHz;  $\sigma$  = 0.956 mho/m;  $\epsilon_r$  = 56.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

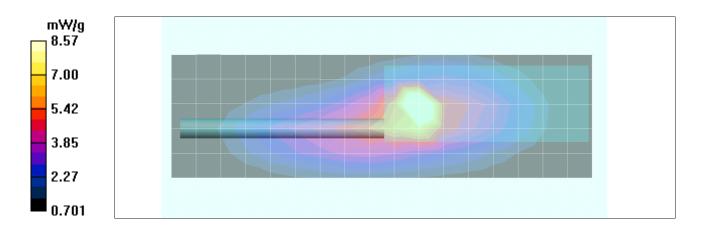
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 11.7 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 69.0 V/m; Power Drift = -0.373 dB Peak SAR (extrapolated) = 18.5 W/kg SAR(1 g) = 8.49 mW/g; SAR(10 g) = 5.03 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.57 mW/g



Applicant:	HARF	HARRIS Corporation FCC ID:		AQZ-XG-100P00		IC:	122D-XG100P00	HARRIS	
DUT Type:	Porta	ble Multi-band PTT	d PTT Radio Transceiver			Model: Unity XG-100P		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 493.5 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 493.5 MHz;  $\sigma$  = 0.98 mho/m;  $\epsilon_r$  = 56;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

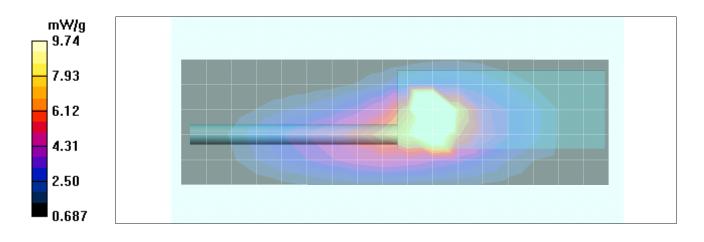
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 23.1 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 70.6 V/m; Power Drift = -0.383 dB Peak SAR (extrapolated) = 20.3 W/kg SAR(1 g) = 9.61 mW/g; SAR(10 g) = 5.69 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 9.74 mW/g



Applicant:	HARF	RRIS Corporation FCC ID:			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Model: Unity XG-100		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 512 MHz;  $\sigma$  = 0.984 mho/m;  $\epsilon_r$  = 56.3;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

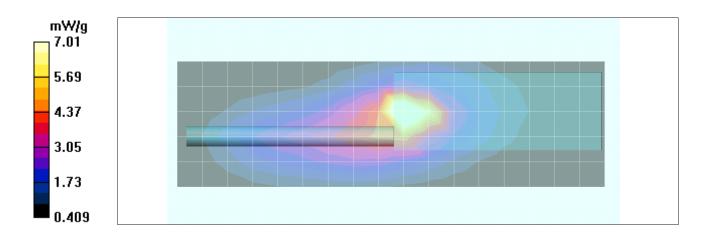
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 9.16 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 86.0 V/m; Power Drift = -1.16 dB Peak SAR (extrapolated) = 18.9 W/kg SAR(1 g) = 7.15 mW/g; SAR(10 g) = 3.83 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 7.01 mW/g



Applicant:	HARF	RIS Corporation	Z-XG-100P00 IC:			122D-XG100P00	HARRIS		
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz		
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Date Tested: 09/1/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 24C; Fluid Temp: 23.5C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.91 mho/m;  $\epsilon_r$  = 57.1;  $\rho$  = 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)

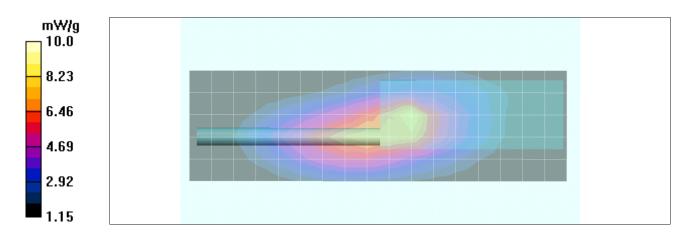
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.45 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 84.6 V/m; Power Drift = 0.022 dB Peak SAR (extrapolated) = 18.4 W/kg SAR(1 g) = 9.66 mW/g; SAR(10 g) = 6.22 mW/g Info: Interpolated medium parameters used for SAR evaluation.

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



Applicant:	HARF	RRIS Corporation FCC ID:			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz		
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Date Tested: 09/1/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 24C; Fluid Temp: 23.5C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.91 mho/m;  $\epsilon_r$  = 57.1;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

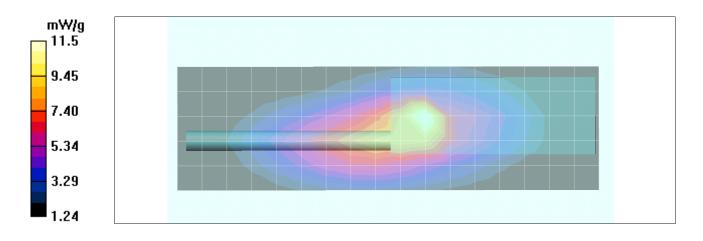
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 12.1 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 92.0 V/m; Power Drift = -0.151 dB Peak SAR (extrapolated) = 20.8 W/kg SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.06 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 11.5 mW/g



Applicant:	HARF	RRIS Corporation FCC ID: AQ				P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	Model:	Model: Unity XG-100P		UHF Band 406.1-512 MHz		
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Date Tested: 09/1/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 24C; Fluid Temp: 23.5C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.91 mho/m;  $\epsilon_r$  = 57.1;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

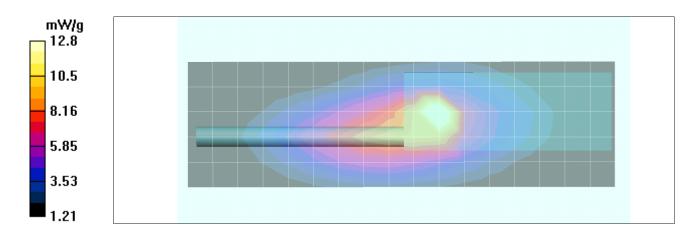
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 15.2 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 = -0.017 dB Peak SAR (extrapolated) = 26.0 W/kg SAR(1 g) = 12.7 mW/g; SAR(10 g) = 7.79 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 12.8 mW/g



Applicant:	HARF	RIS Corporation FCC ID: AC			QZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz		
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Date Tested: 09/1/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 24C; Fluid Temp: 23.5C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.91 mho/m;  $\epsilon_r$  = 57.1;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

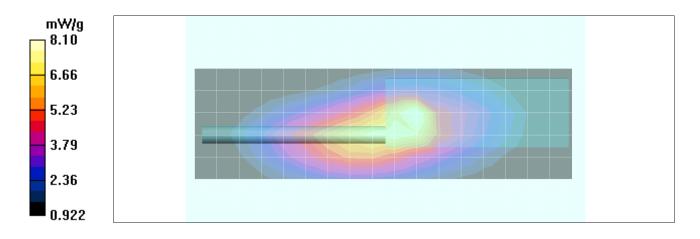
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.37 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 92.4 V/m; Power Drift = -1.57 dB Peak SAR (extrapolated) = 15.1 W/kg SAR(1 g) = 7.95 mW/g; SAR(10 g) = 5.17 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.10 mW/g



Applicant:	HARF	RRIS Corporation FCC ID:			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Model: Unity XG		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 423.5 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 423.5 MHz;  $\sigma$  = 0.92 mho/m;  $\epsilon_r$  = 57;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

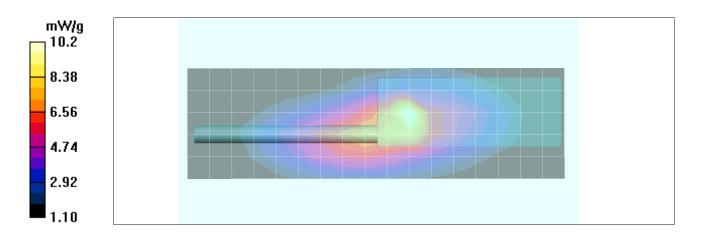
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 10.4 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 87.1 V/m; Power Drift = -0.467 dB Peak SAR (extrapolated) = 19.5 W/kg SAR(1 g) = 9.99 mW/g; SAR(10 g) = 6.36 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 10.2 mW/g



Applicant:	HARF	RIS Corporation FCC ID: AC			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

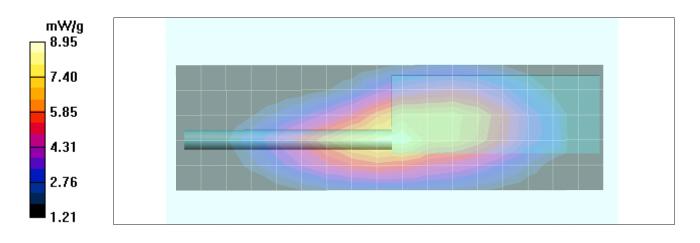
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.45 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 86.4 V/m; Power Drift = -0.275 dB Peak SAR (extrapolated) = 14.0 W/kg SAR(1 g) = 8.08 mW/g; SAR(10 g) = 5.54 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.95 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 423.5 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 423.5 MHz;  $\sigma$  = 0.92 mho/m;  $\epsilon_r$  = 57;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

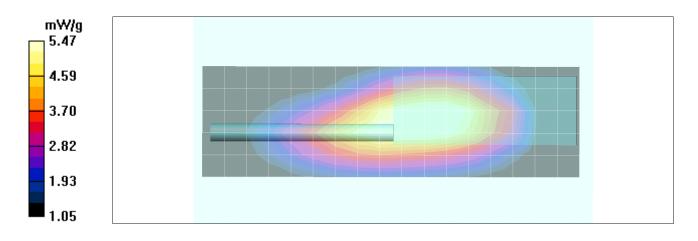
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 5.67 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 77.5 V/m; Power Drift = -0.577 dB Peak SAR (extrapolated) = 7.22 W/kg SAR(1 g) = 5.25 mW/g; SAR(10 g) = 3.95 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 5.47 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

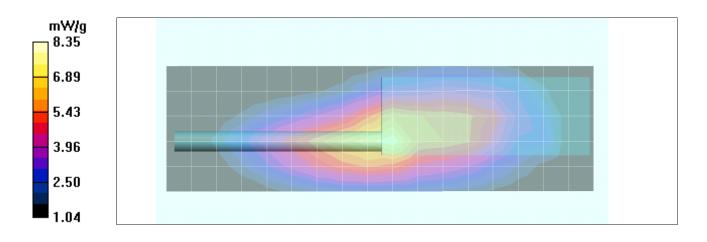
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 7.76 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 79.2 V/m; Power Drift = 0.032 dB Peak SAR (extrapolated) = 13.9 W/kg SAR(1 g) = 7.48 mW/g; SAR(10 g) = 4.93 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 8.35 mW/g



Applicant:	HARF	RIS Corporation FCC ID: AC			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

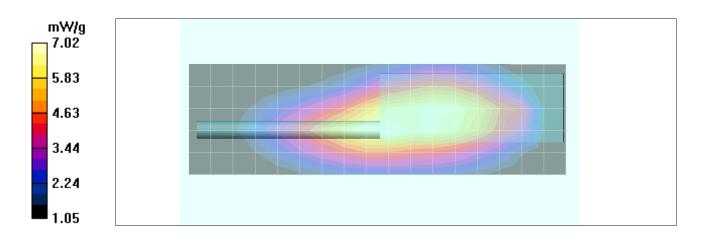
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 7.13 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 81.8 V/m; Power Drift = -0.184 dB Peak SAR (extrapolated) = 11.3 W/kg SAR(1 g) = 6.75 mW/g; SAR(10 g) = 4.8 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 7.02 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

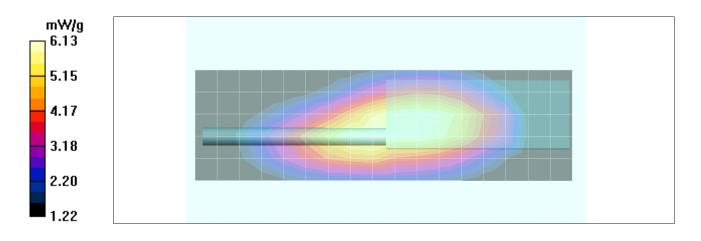
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.17 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 79.9 V/m; Power Drift = -0.092 dB Peak SAR (extrapolated) = 8.14 W/kg SAR(1 g) = 5.91 mW/g; SAR(10 g) = 4.46 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.13 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 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)

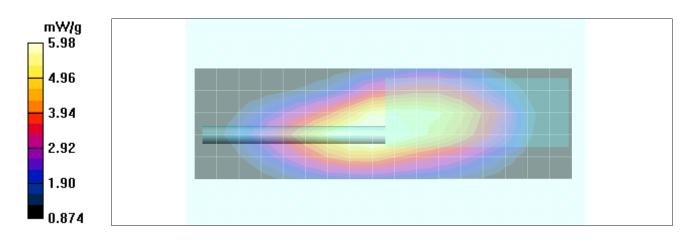
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.75 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 85.2 V/m; Power Drift = -1.38 dB Peak SAR (extrapolated) = 8.84 W/kg SAR(1 g) = 5.61 mW/g; SAR(10 g) = 3.98 mW/g Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.98 mW/g



Applicant:	HARF	ARRIS Corporation FCC ID:			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS	
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz		
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

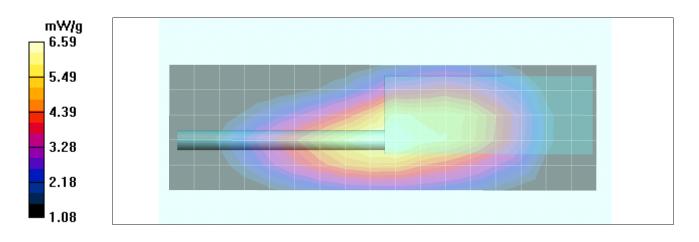
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.85 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 79.6 V/m; Power Drift = -0.398 dB Peak SAR (extrapolated) = 9.22 W/kg SAR(1 g) = 6.32 mW/g; SAR(10 g) = 4.59 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.59 mW/g



Applicant:	HARF	RIS Corporation FCC ID: AC			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ole Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

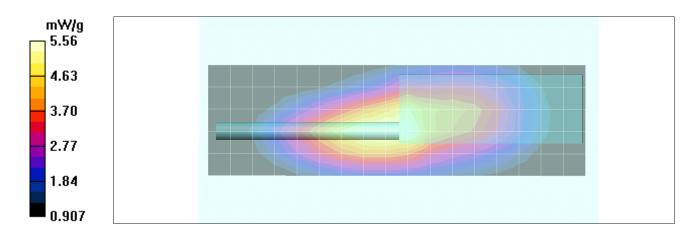
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 5.75 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 73.7 V/m; Power Drift = -0.309 dB Peak SAR (extrapolated) = 7.74 W/kg SAR(1 g) = 5.32 mW/g; SAR(10 g) = 3.86 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 5.56 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

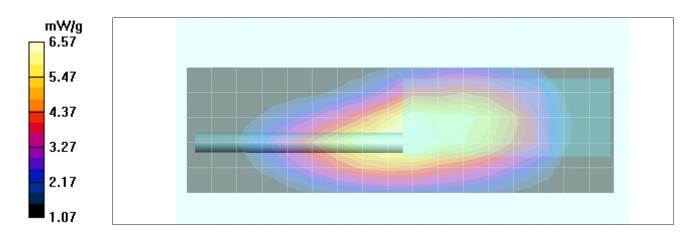
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.95 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 81.2 V/m; Power Drift = -0.058 dB Peak SAR (extrapolated) = 9.21 W/kg SAR(1 g) = 6.32 mW/g; SAR(10 g) = 4.62 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.57 mW/g



Applicant:	HARF	RIS Corporation FCC ID: AC			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ole Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

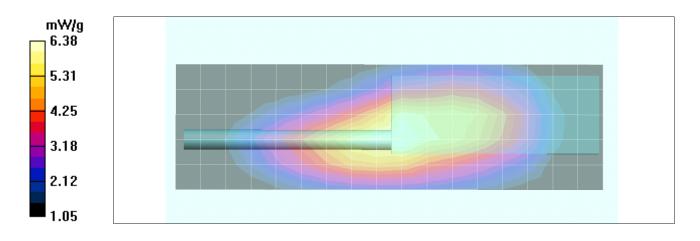
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.58 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 78.0 V/m; Power Drift = -0.271 dB Peak SAR (extrapolated) = 8.89 W/kg SAR(1 g) = 6.12 mW/g; SAR(10 g) = 4.46 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.38 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			Z-XG-100	P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	KG-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

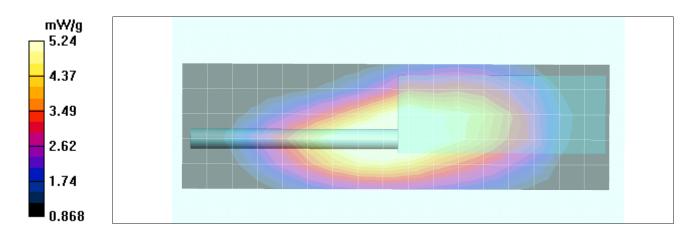
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 6.39 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 82.9 V/m; Power Drift = -1.58 dB Peak SAR (extrapolated) = 7.30 W/kg SAR(1 g) = 5.01 mW/g; SAR(10 g) = 3.65 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 5.24 mW/g



Applicant:	HARF	RIS Corporation FCC ID: A			AQZ-XG-100P00 IC:			122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity >	(G-100P	UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

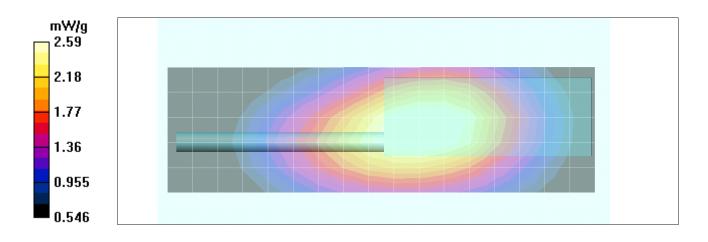
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.70 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 52.6 V/m; Power Drift = -0.395 dB Peak SAR (extrapolated) = 3.39 W/kg SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.9 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.59 mW/g



Applicant:	HARRIS Corporation F		FCC ID:	AQZ-XG-100P00		P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Portal	ole Multi-band PTT	Radio Transo	ceiver	Model:	Unity XG-100P		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\varepsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

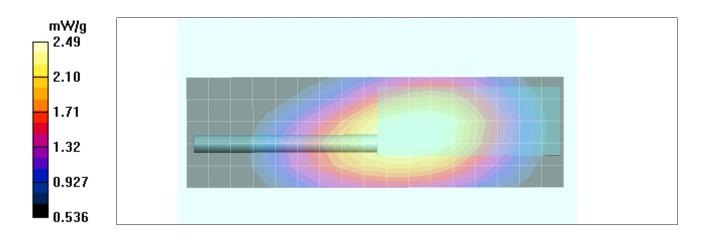
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.56 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 49.7 V/m; Power Drift = -0.129 dB Peak SAR (extrapolated) = 3.28 W/kg SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.84 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.49 mW/g



Applicant:	HARRIS Corporation		FCC ID:	AQZ-XG-100P00		P00 IC:		122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity XG-100P		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

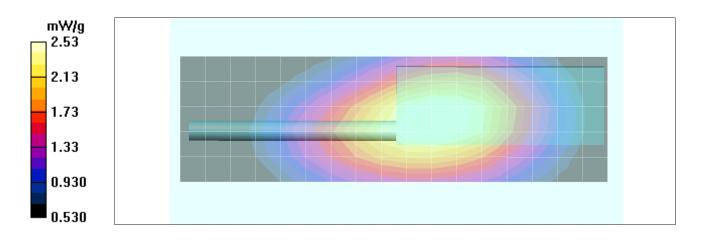
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.57 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 50.5 V/m; Power Drift = -0.201 dB Peak SAR (extrapolated) = 3.31 W/kg SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.85 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.53 mW/g



Applicant:	HARF	HARRIS Corporation FCC ID:		AQZ-XG-100P00			IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity XG-100P		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

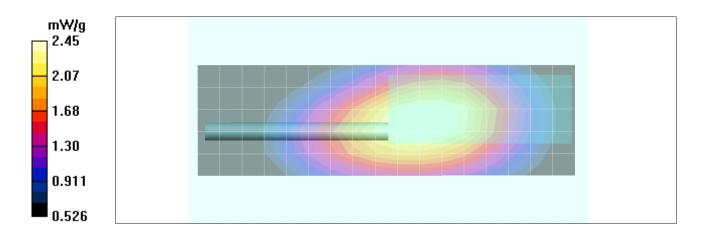
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.49 mW/g Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value = 50.4 V/m; Power Drift = -0.316 dB Peak SAR (extrapolated) = 3.22 W/kg SAR(1 g) = 2.36 mW/g; SAR(10 g) = 1.8 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 2.45 mW/g



Applicant:	HARRIS Corporation		FCC ID:	AQZ-XG-100P0		IOOP00 IC:		122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity XG-100P		UHF Band 406.1-512 MHz	
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Date Tested: 09/2/2011

#### DUT: Harris Unity XG-100P; Type: Portable Multi-Band PTT Radio Transceiver; Serial: A40200001652

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW Frequency: 406.1 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated): f = 406.1 MHz;  $\sigma$  = 0.908 mho/m;  $\epsilon_r$  = 57.4;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(7.82, 7.82, 7.82); Calibrated: 22/06/2011

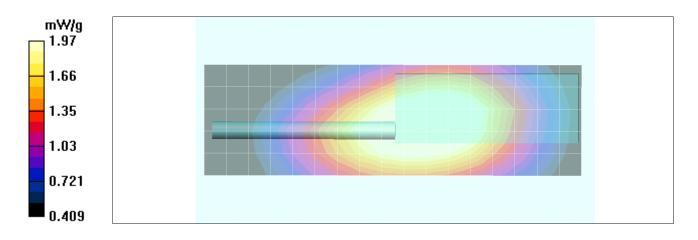
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)

- 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 (6x18x1): Measurement grid: dx=20mm, dy=20mm Info: Interpolated medium parameters used for SAR evaluation. 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 = 52.2 V/m; Power Drift = -1.67 dB Peak SAR (extrapolated) = 2.58 W/kg SAR(1 g) = 1.89 mW/g; SAR(10 g) = 1.44 mW/g Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 1.97 mW/g



Applicant:	HARRIS Corporation F		FCC ID:	AQZ-XG-100P00		P00	IC:	122D-XG100P00	HARRIS
DUT Type:	Porta	ble Multi-band PTT	Radio Transo	ceiver	Model:	Unity XG-100P		UHF Band 406.1-512 MHz	
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