

	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	  Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – NiCd NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-Wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.31 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

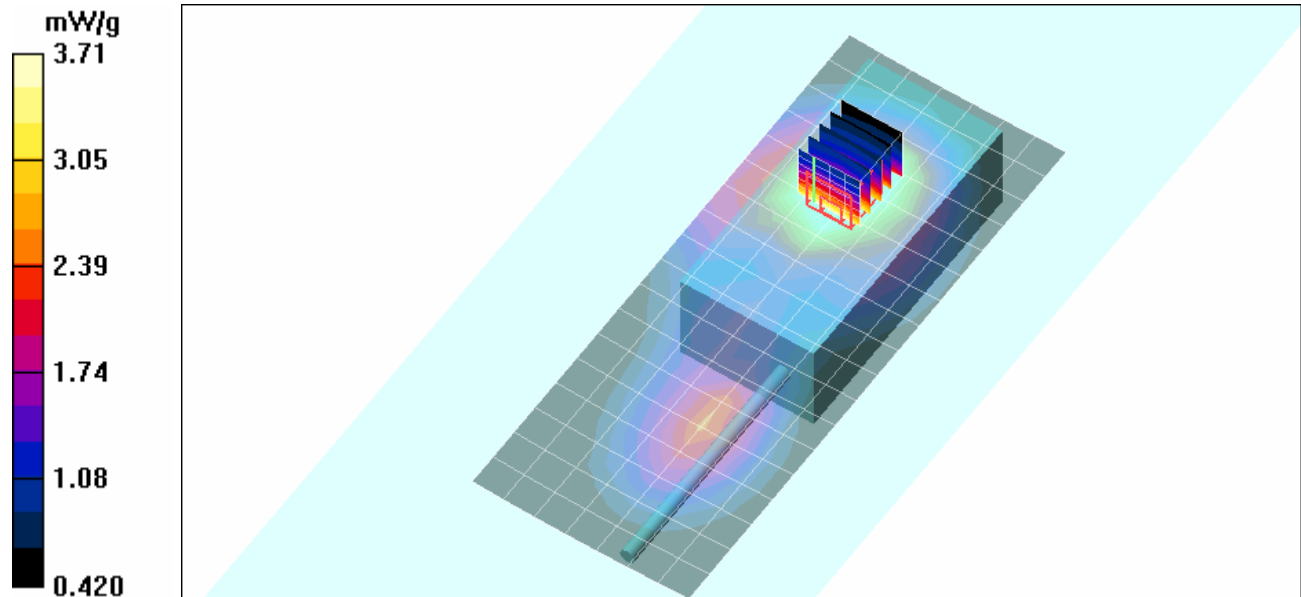
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.3 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 4.34 W/kg

SAR(1 g) = 3.43 mW/g; SAR(10 g) = 2.58 mW/g

Maximum value of SAR (measured) = 3.71 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – NiCd IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-Wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.33 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

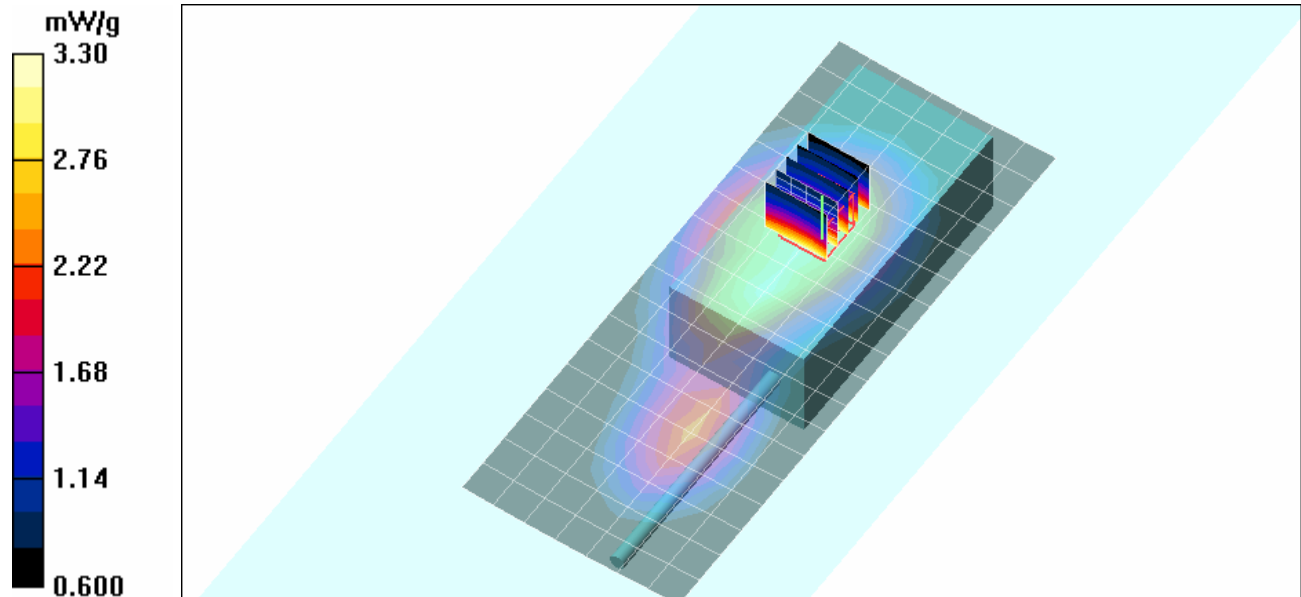
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.9 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 3.17 mW/g; SAR(10 g) = 2.44 mW/g

Maximum value of SAR (measured) = 3.30 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – NiMH NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-Wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 823.9875$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 56.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.60 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 49.9 V/m; Power Drift = 0.0850 dB

Peak SAR (extrapolated) = 4.38 W/kg

SAR(1 g) = 3.41 mW/g; SAR(10 g) = 2.58 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

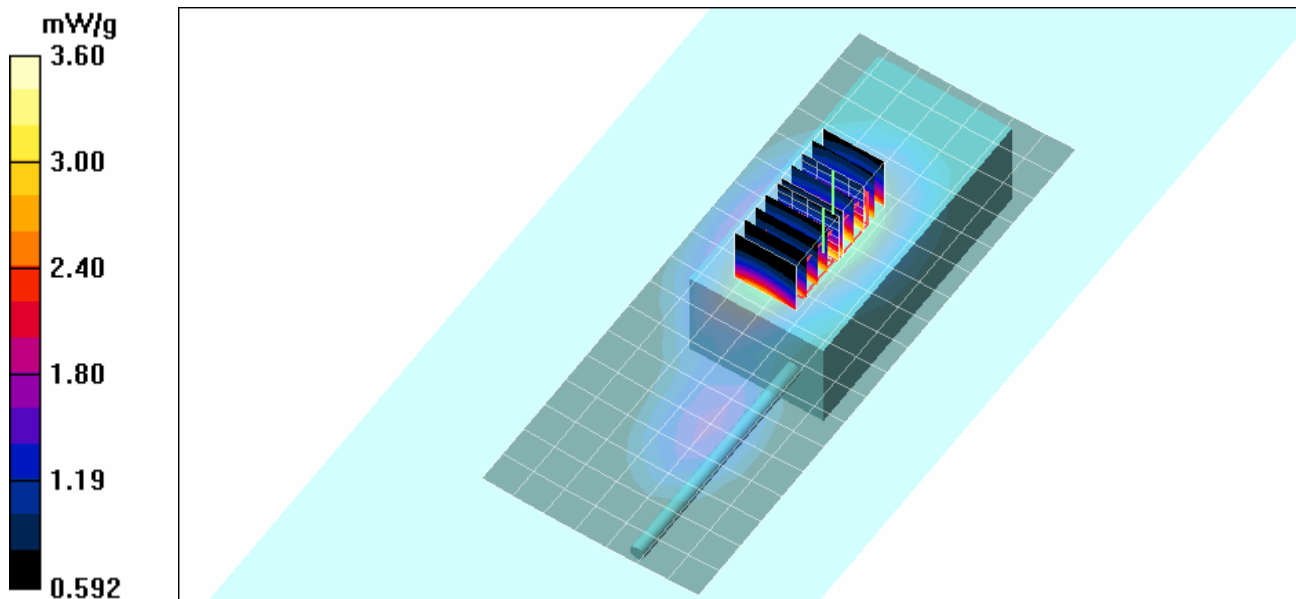
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 49.9 V/m; Power Drift = 0.0850 dB

Peak SAR (extrapolated) = 4.74 W/kg

SAR(1 g) = 3.23 mW/g; SAR(10 g) = 2.32 mW/g

Maximum value of SAR (measured) = 3.48 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – NiMH IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-Wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.14 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

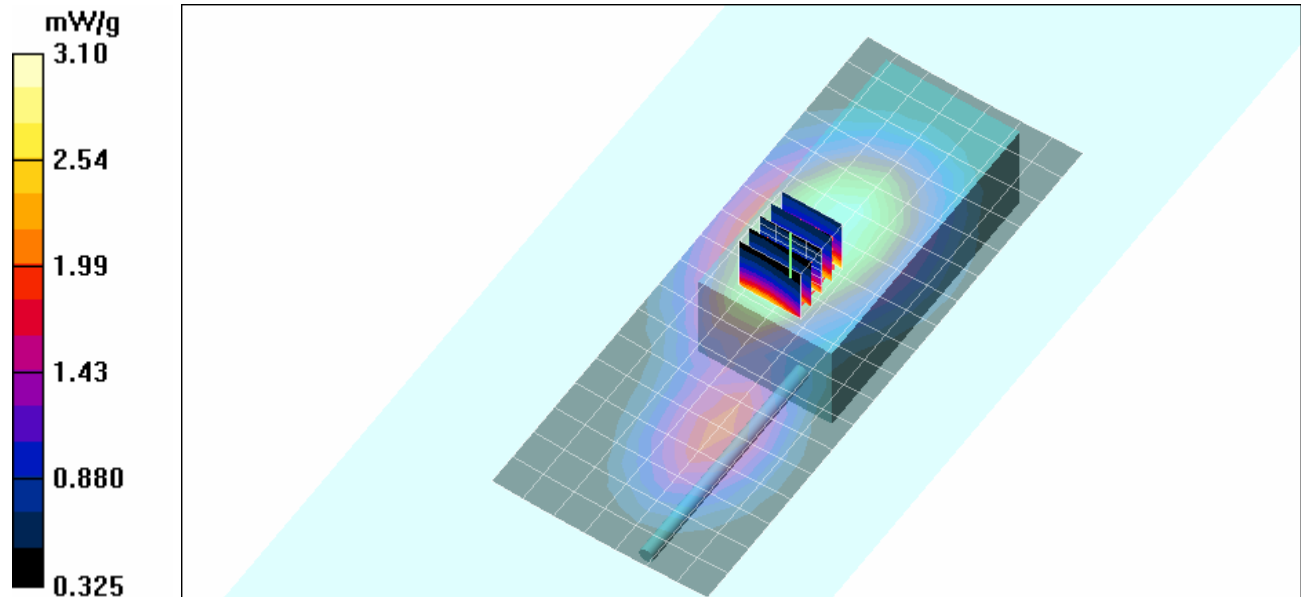
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.0 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 2.79 mW/g; SAR(10 g) = 1.96 mW/g

Maximum value of SAR (measured) = 3.10 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – Li-Ion NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-Wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.28 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

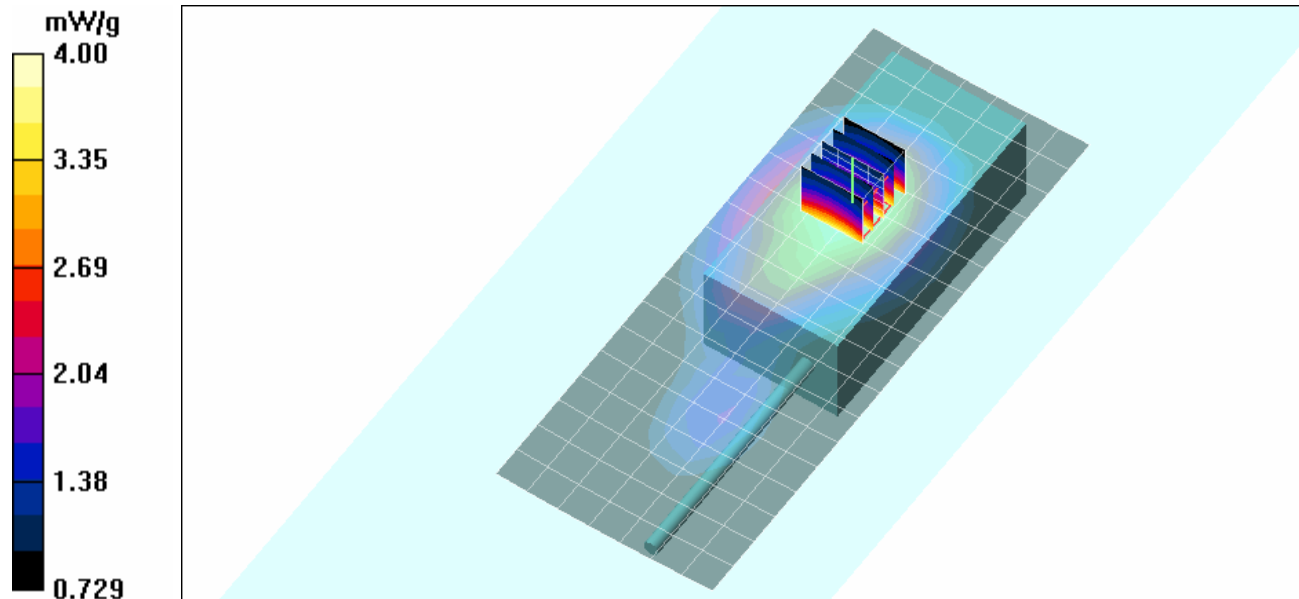
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.9 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 4.73 W/kg

SAR(1 g) = 3.85 mW/g; SAR(10 g) = 3 mW/g

Maximum value of SAR (measured) = 4.00 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – Li-Ion IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-Wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.70 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

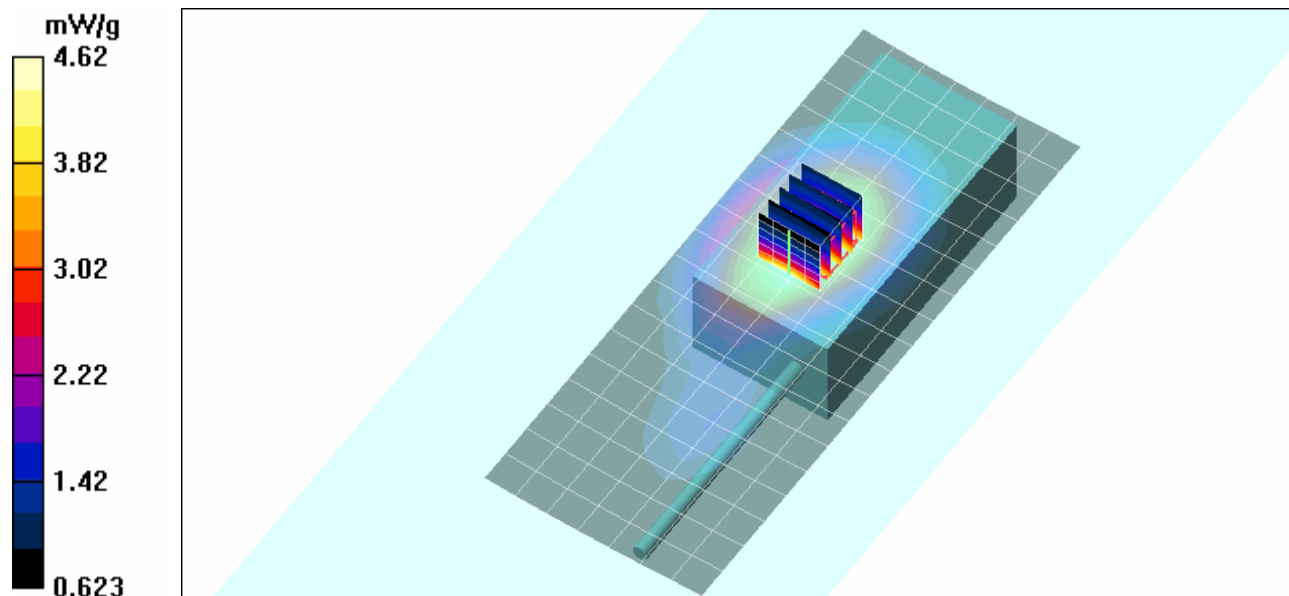
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.0 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 6.59 W/kg

SAR(1 g) = 4.35 mW/g; SAR(10 g) = 3.21 mW/g

Maximum value of SAR (measured) = 4.62 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.85 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

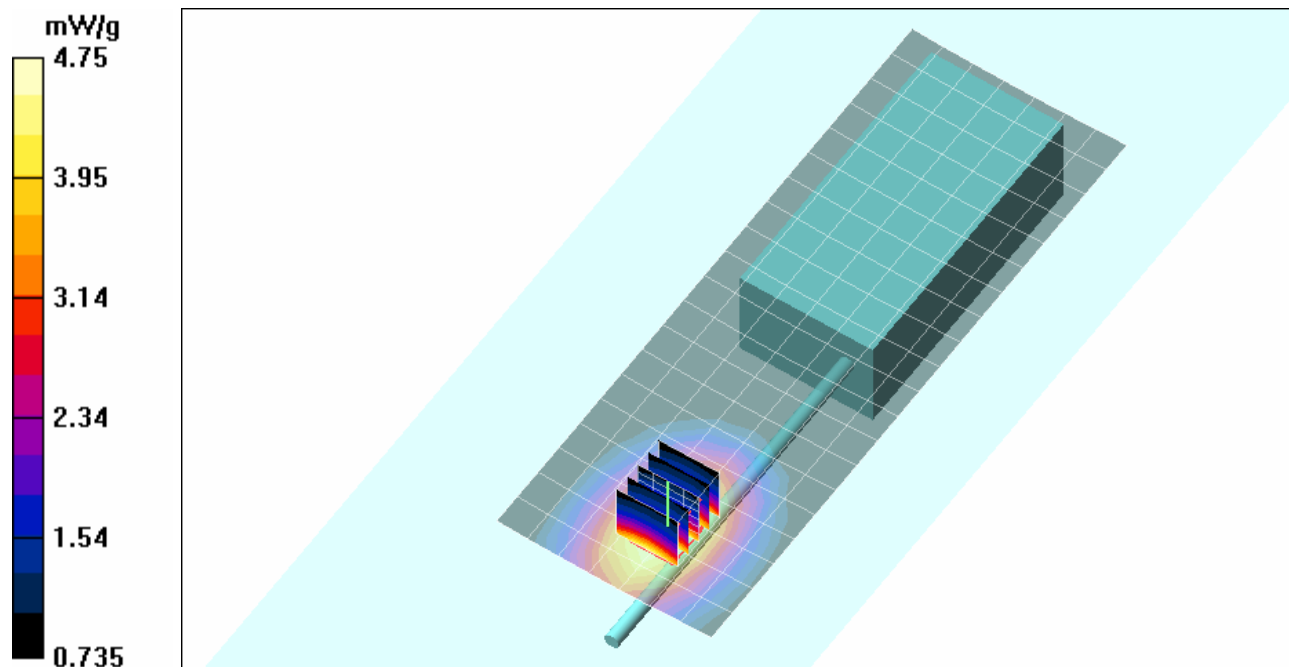
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.8 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 5.75 W/kg

SAR(1 g) = 4.49 mW/g; SAR(10 g) = 3.3 mW/g

Maximum value of SAR (measured) = 4.75 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.07 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

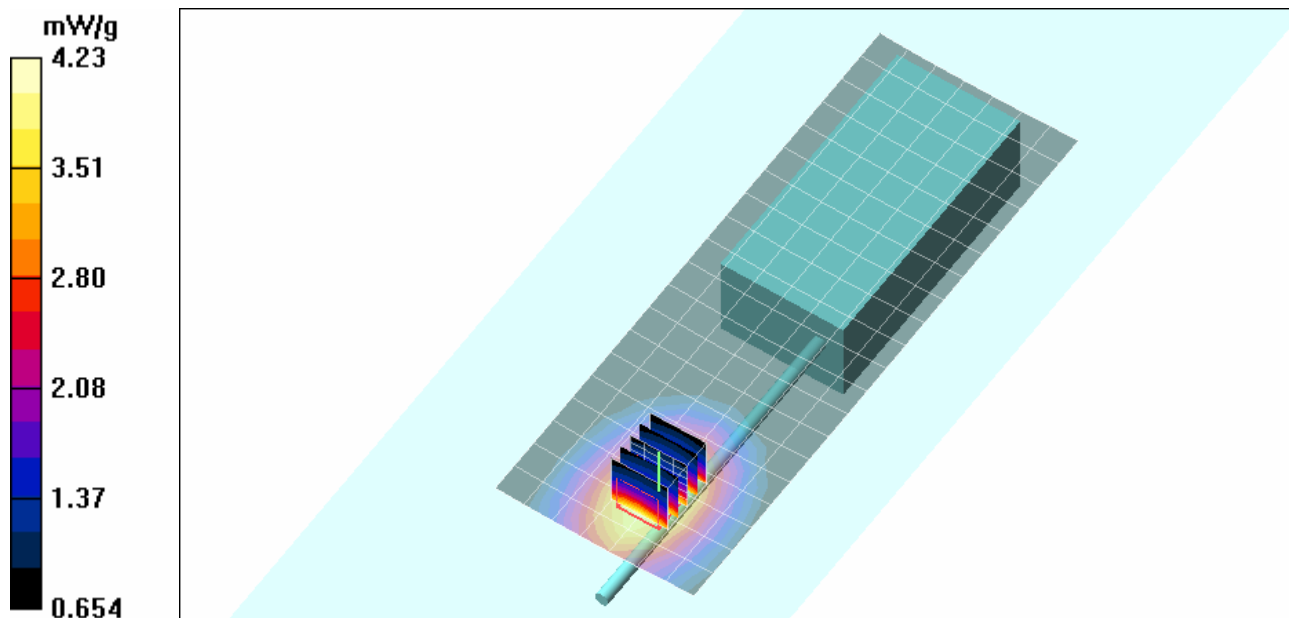
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.7 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 5.13 W/kg

SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.92 mW/g

Maximum value of SAR (measured) = 4.23 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.79 mW/g

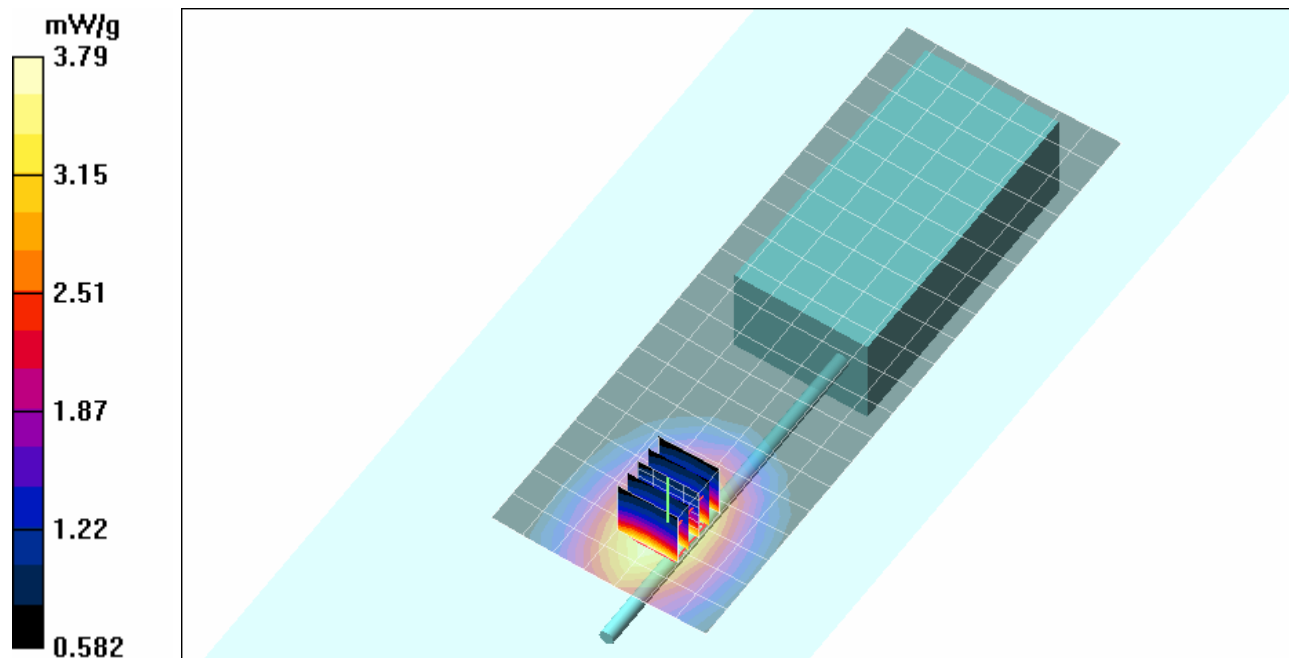
Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 9.21 V/m; Power Drift = 0.0645 dB

Peak SAR (extrapolated) = 4.63 W/kg

SAR(1 g) = 3.6 mW/g; SAR(10 g) = 2.68 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.59 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

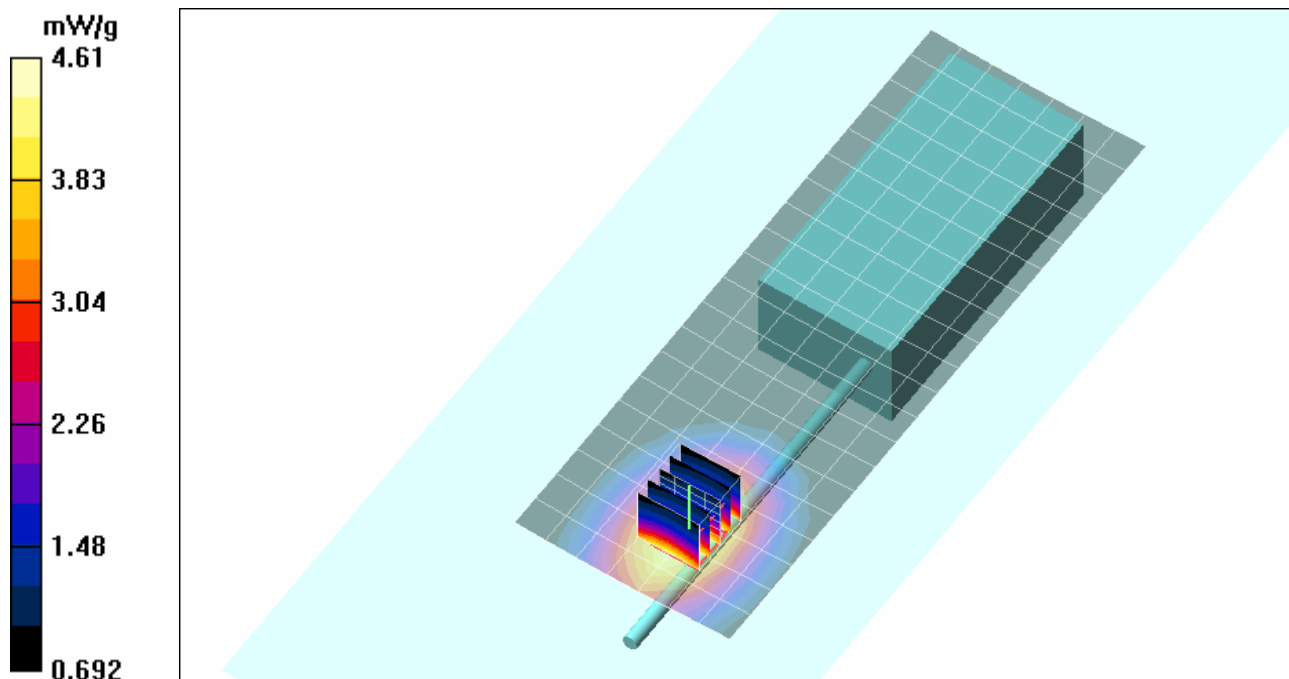
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.8 V/m; Power Drift = 0.292 dB

Peak SAR (extrapolated) = 5.62 W/kg

SAR(1 g) = 4.34 mW/g; SAR(10 g) = 3.17 mW/g

Maximum value of SAR (measured) = 4.61 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – Li-Ion NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.95 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

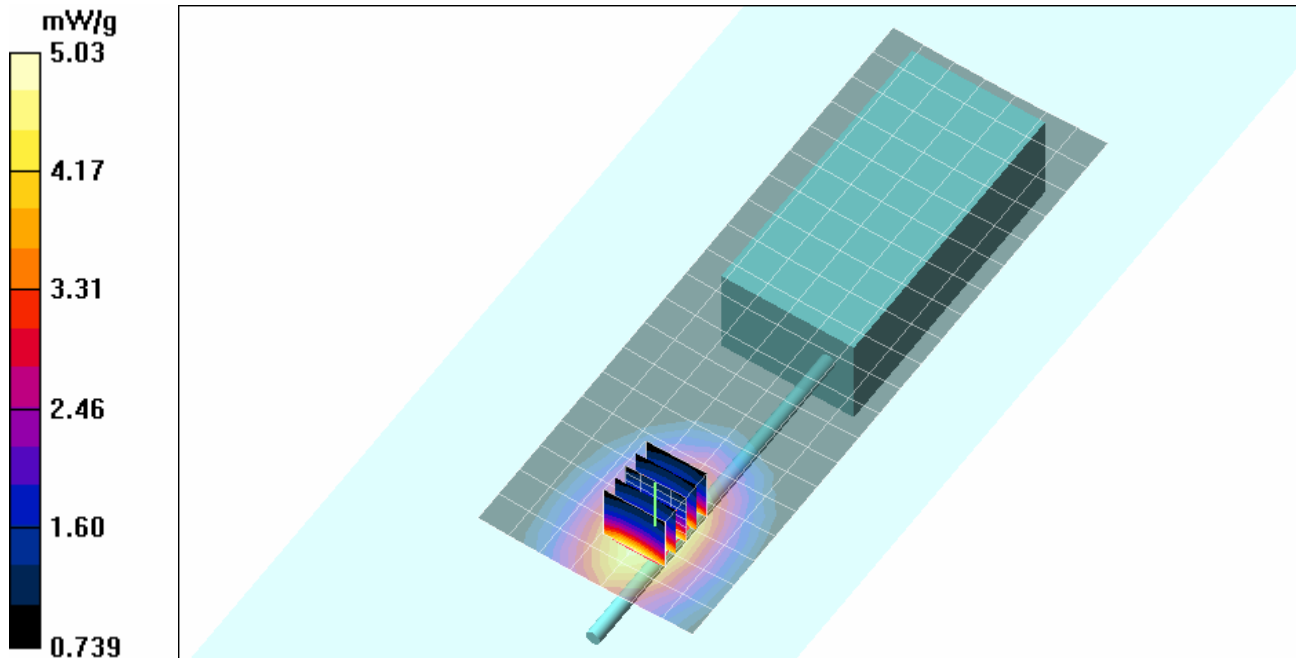
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.07 V/m; Power Drift = -0.0495 dB

Peak SAR (extrapolated) = 6.13 W/kg

SAR(1 g) = 4.75 mW/g; SAR(10 g) = 3.47 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Certificate No. 2470.01

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – Li-ion IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.28 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

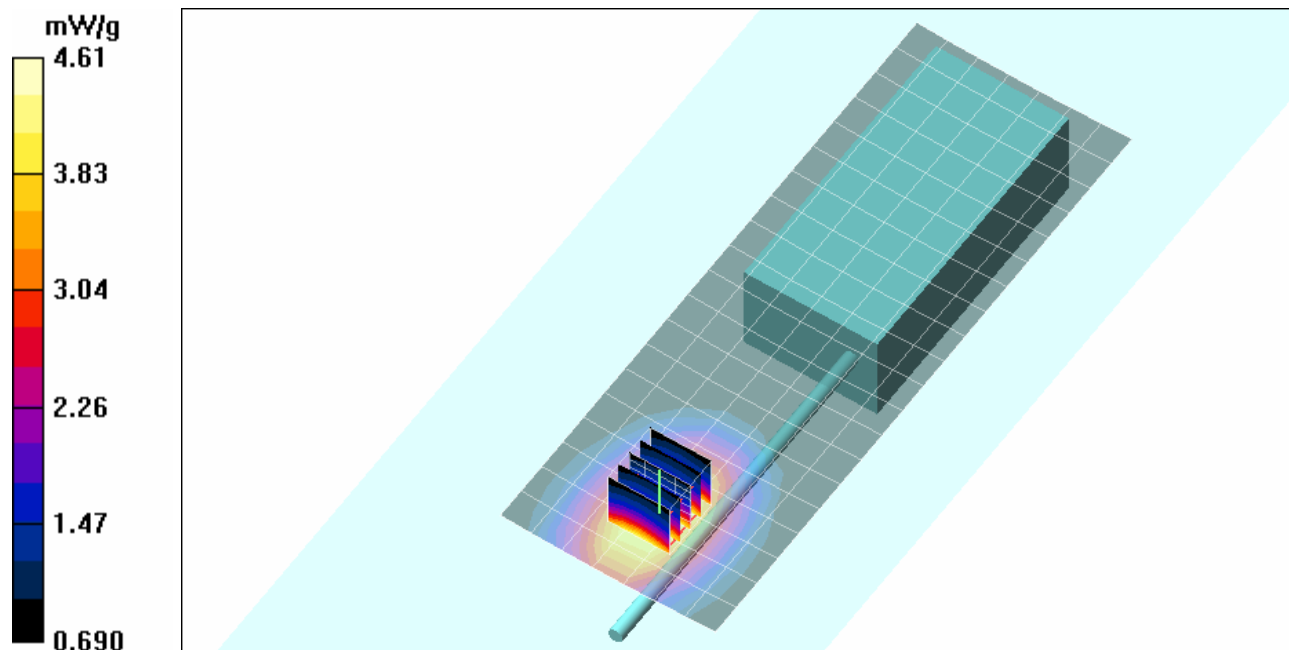
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.89 V/m; Power Drift = 0.0643 dB

Peak SAR (extrapolated) = 5.57 W/kg

SAR(1 g) = 4.36 mW/g; SAR(10 g) = 3.2 mW/g

Maximum value of SAR (measured) = 4.61 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – NiCd NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011506/2)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.94 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

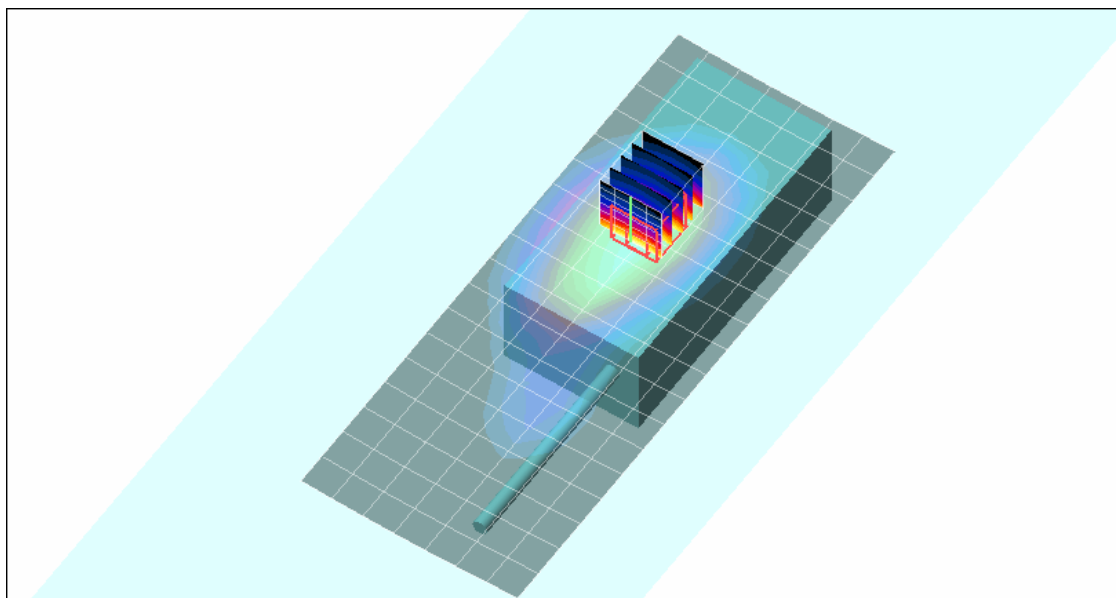
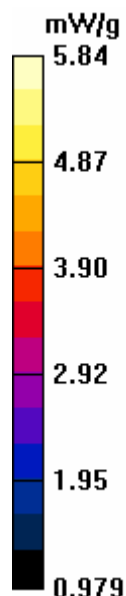
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 63.8 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 7.35 W/kg

SAR(1 g) = 5.57 mW/g; SAR(10 g) = 4.23 mW/g

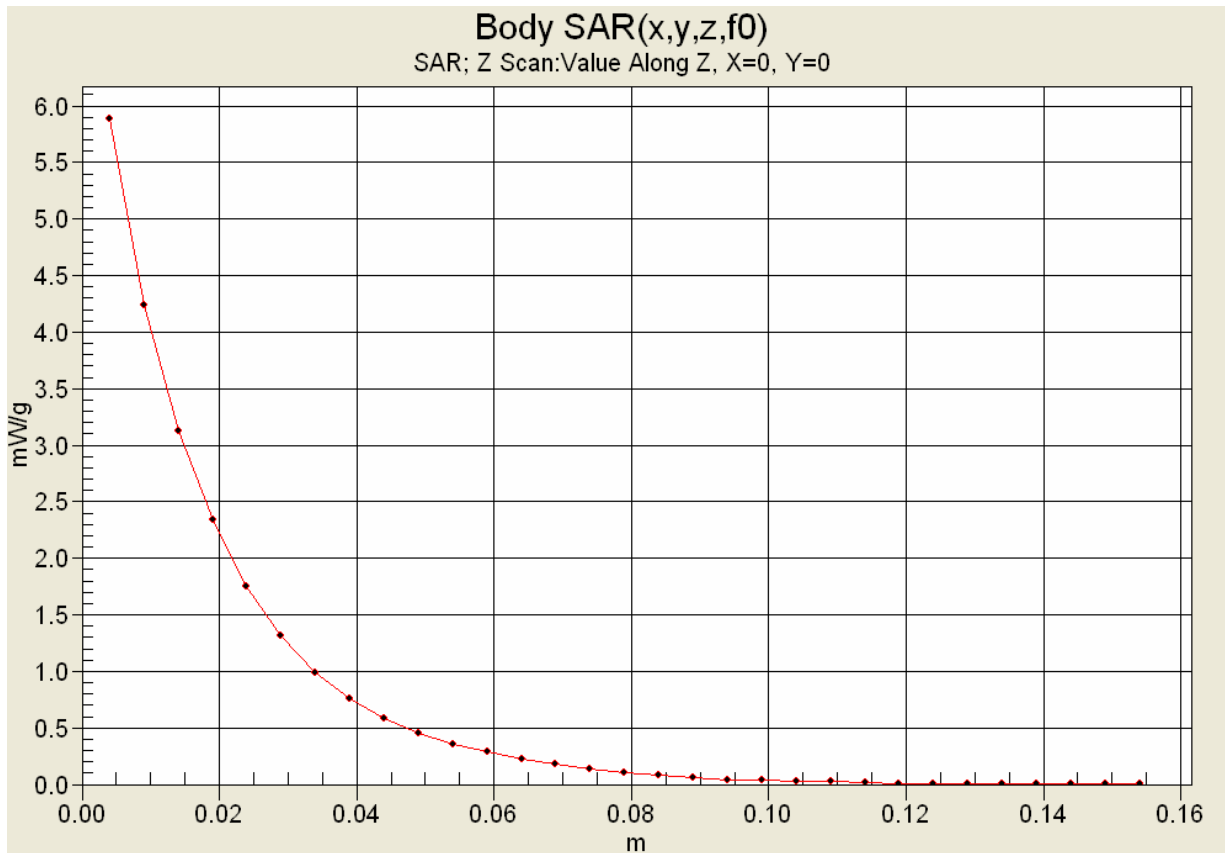
Maximum value of SAR (measured) = 5.84 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Z-Axis Scan



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver				Freq.:	806-824 MHz / 851-869 MHz		
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011506/2)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.81 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

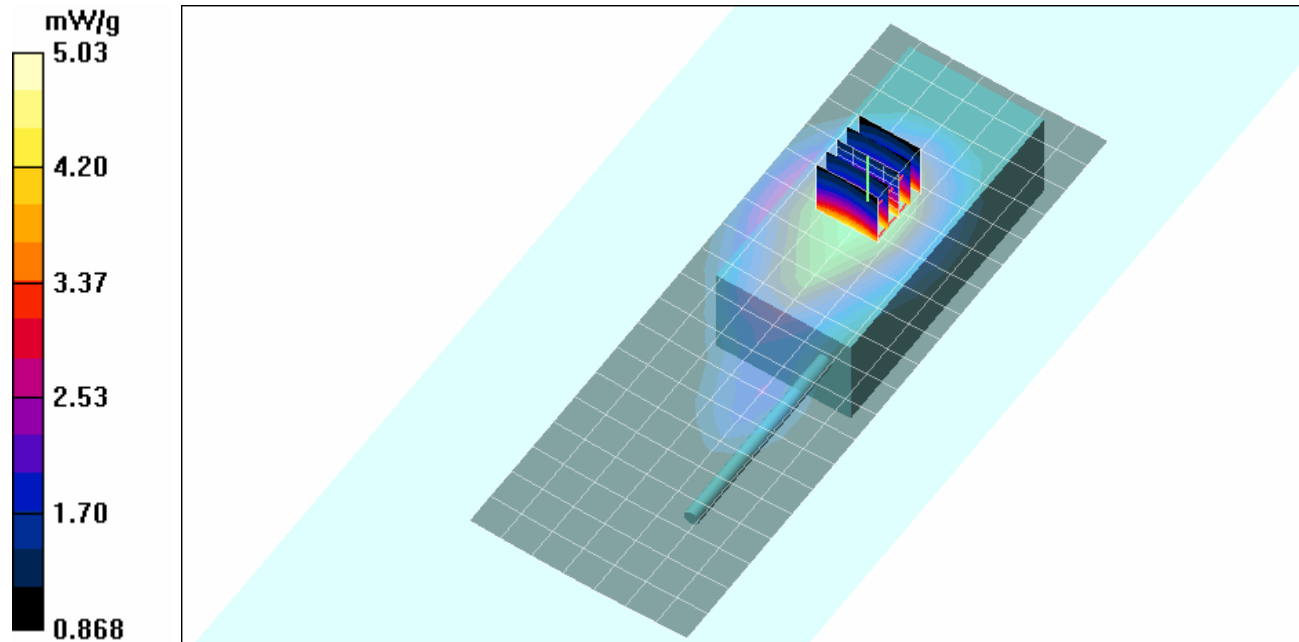
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.4 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 6.00 W/kg

SAR(1 g) = 4.8 mW/g; SAR(10 g) = 3.64 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	  Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – NiMH NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011506/2)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.87 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

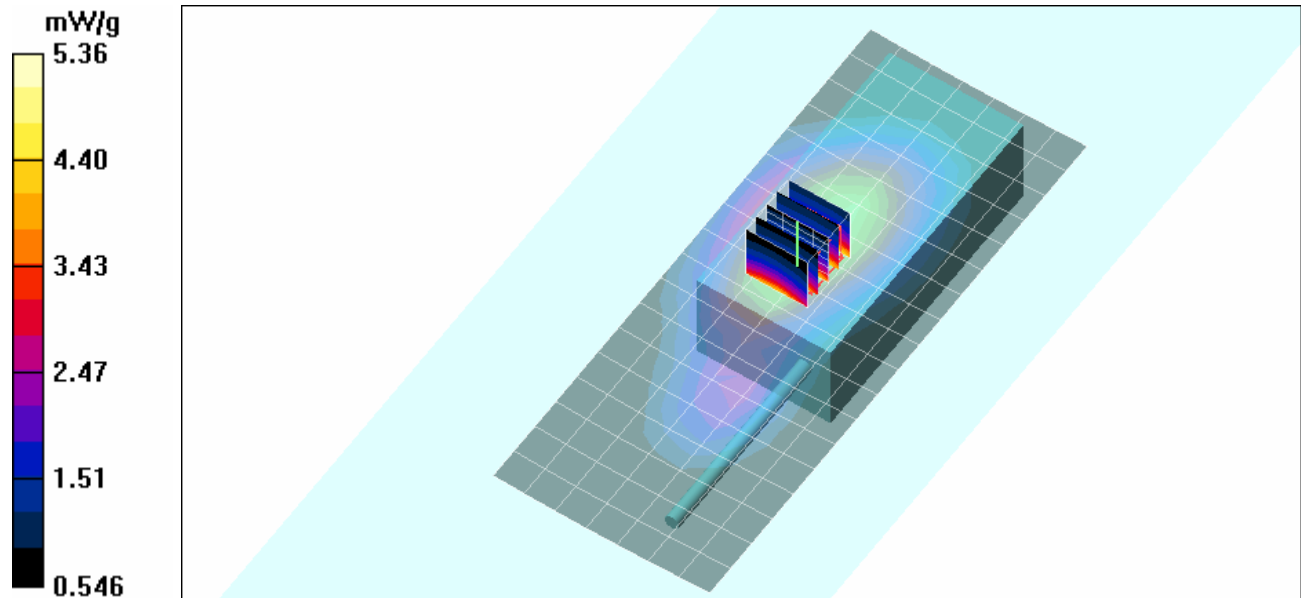
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 61.5 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 7.26 W/kg

SAR(1 g) = 4.78 mW/g; SAR(10 g) = 3.33 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011506/2)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.38 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

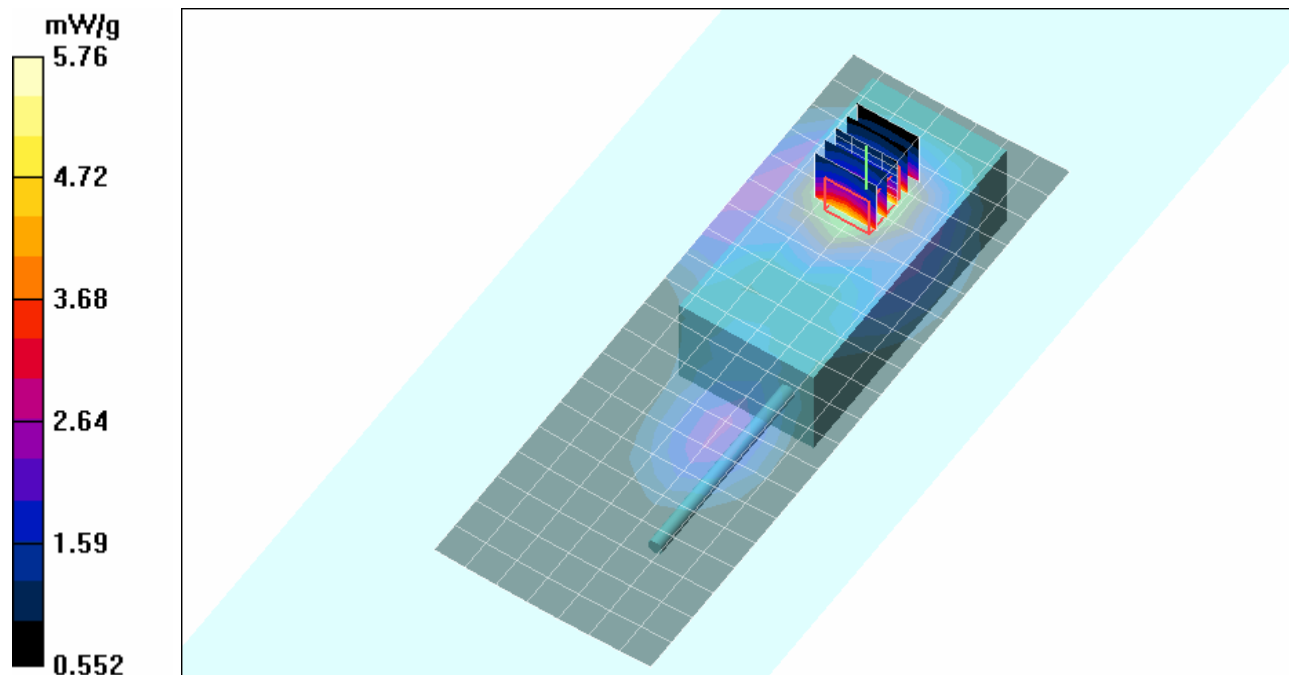
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.8 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 7.27 W/kg

SAR(1 g) = 5.29 mW/g; SAR(10 g) = 3.72 mW/g

Maximum value of SAR (measured) = 5.76 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – Li-Ion NIS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011506/2)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.88 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

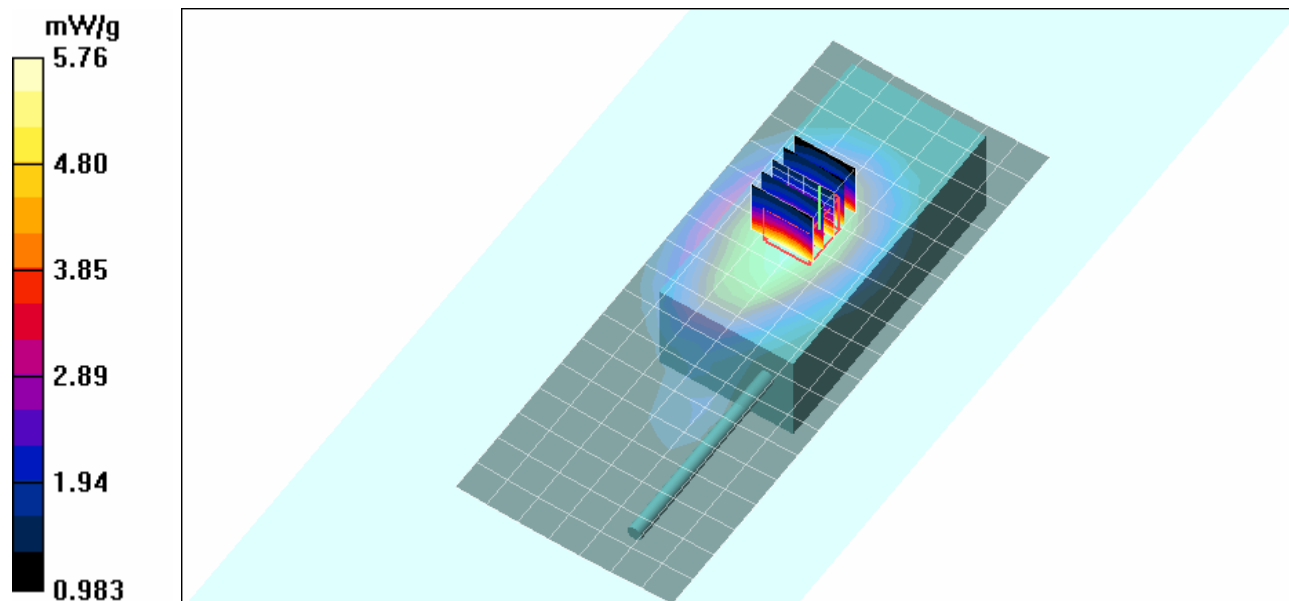
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.1 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 7.12 W/kg

SAR(1 g) = 5.52 mW/g; SAR(10 g) = 4.23 mW/g

Maximum value of SAR (measured) = 5.76 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/06/2008

Body-Worn SAR – Scan Radio – Li-Ion IS Battery – Band 1 – 823.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.0°C; Fluid Temp: 22.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011506/2)

Medium: M835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.70 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

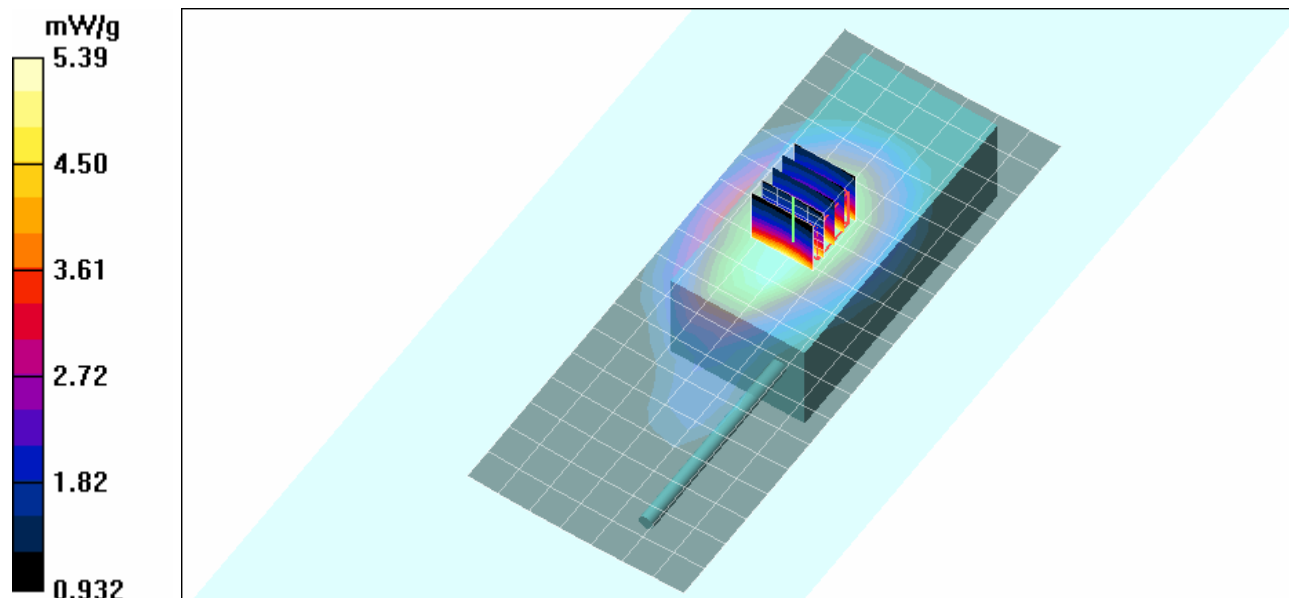
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.1 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 6.81 W/kg

SAR(1 g) = 5.13 mW/g; SAR(10 g) = 3.95 mW/g

Maximum value of SAR (measured) = 5.39 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd NIS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 10/07/2007

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.62 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 42.9 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 4.26 W/kg

SAR(1 g) = 3.27 mW/g; SAR(10 g) = 2.38 mW/g

Maximum value of SAR (measured) = 3.43 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

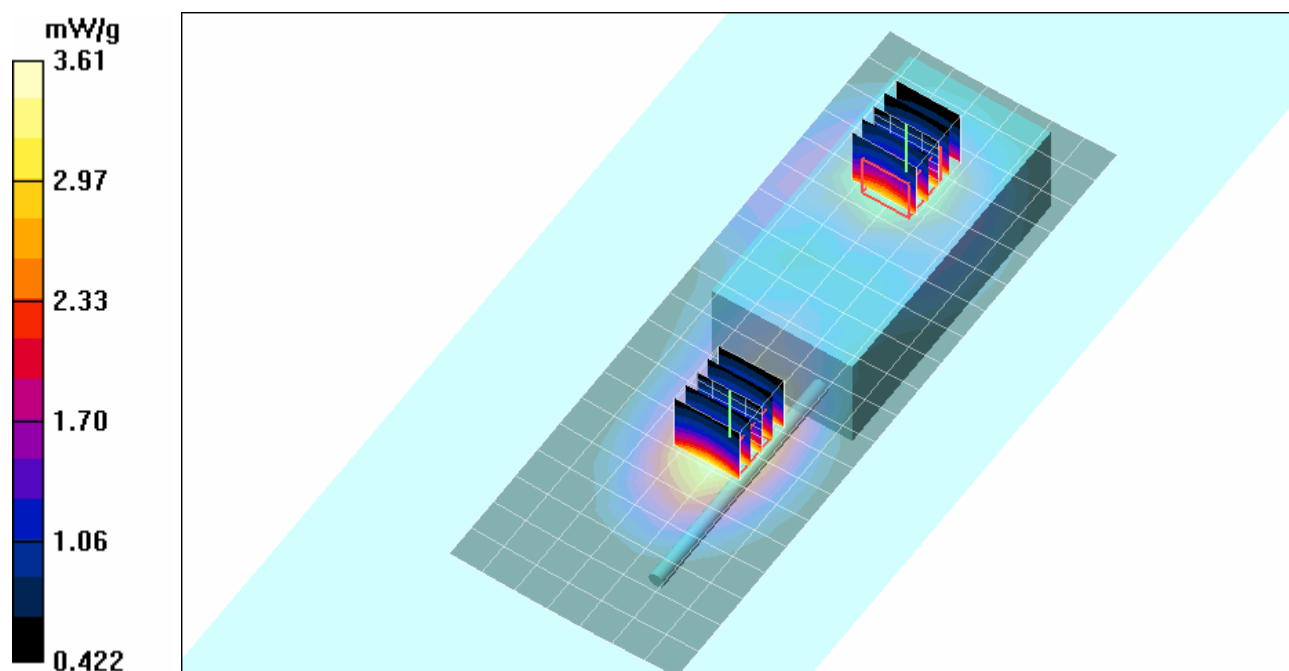
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 42.9 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 4.48 W/kg

SAR(1 g) = 3.39 mW/g; SAR(10 g) = 2.41 mW/g

Maximum value of SAR (measured) = 3.61 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd IS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 10/07/2007

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.96 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 43.3 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 4.33 W/kg

SAR(1 g) = 3.31 mW/g; SAR(10 g) = 2.36 mW/g

Maximum value of SAR (measured) = 3.52 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

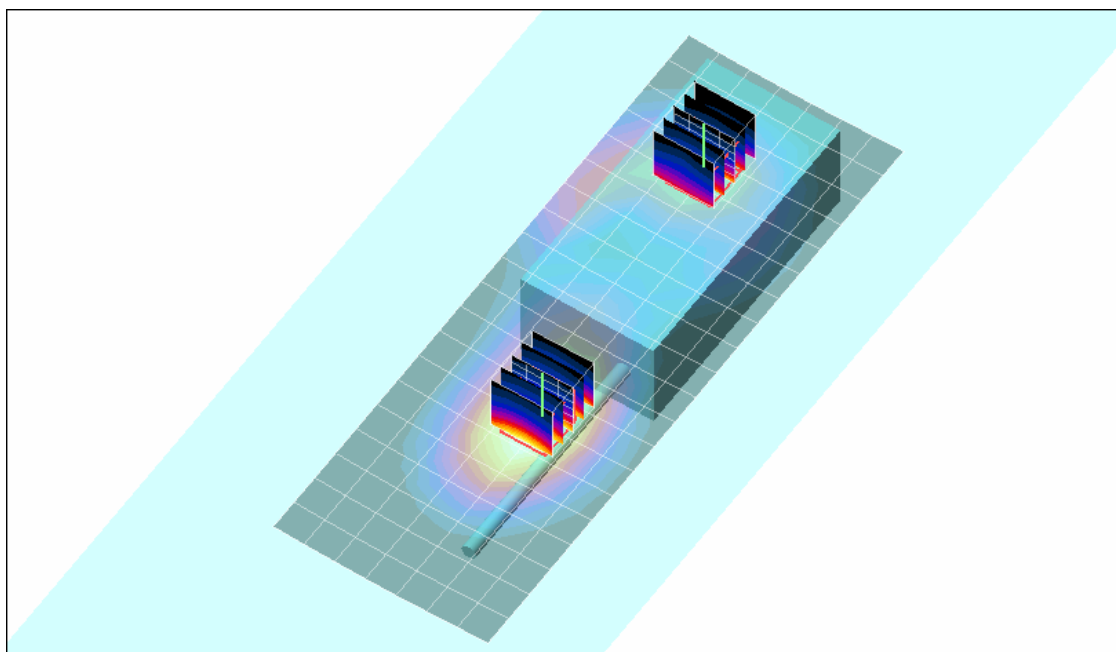
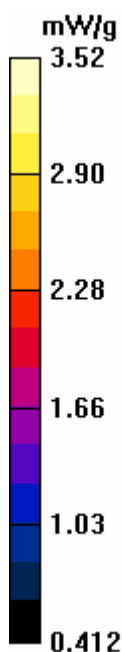
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.3 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 2.59 mW/g; SAR(10 g) = 1.87 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH NIS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 10/07/2007

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.70 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 45.9 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 4.65 W/kg

SAR(1 g) = 3.56 mW/g; SAR(10 g) = 2.54 mW/g

Maximum value of SAR (measured) = 3.80 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

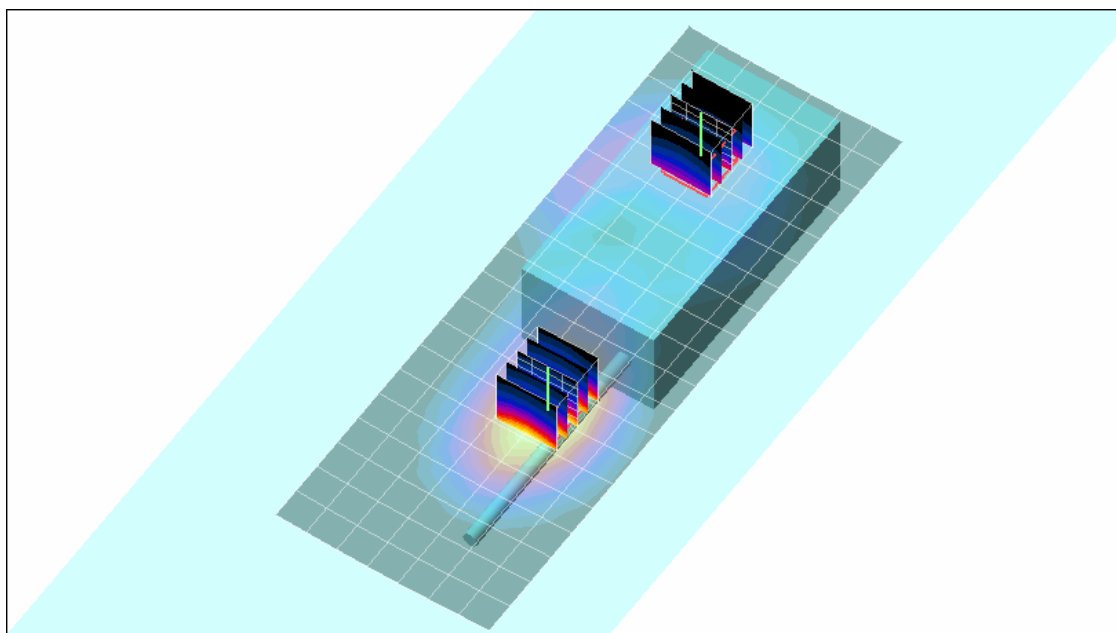
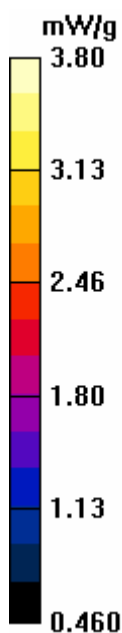
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 45.9 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.64 mW/g

Maximum value of SAR (measured) = 2.40 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH IS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%
Communication System: CW
RF Conducted Power: 3.03 Watts
Frequency: 868.9875 MHz; Duty Cycle: 1:1
Antenna: Quarter-wave Whip (P/N: KRE1011223/01)
Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$
- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.09 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 43.7 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 5.27 W/kg

SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.82 mW/g

Maximum value of SAR (measured) = 4.23 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

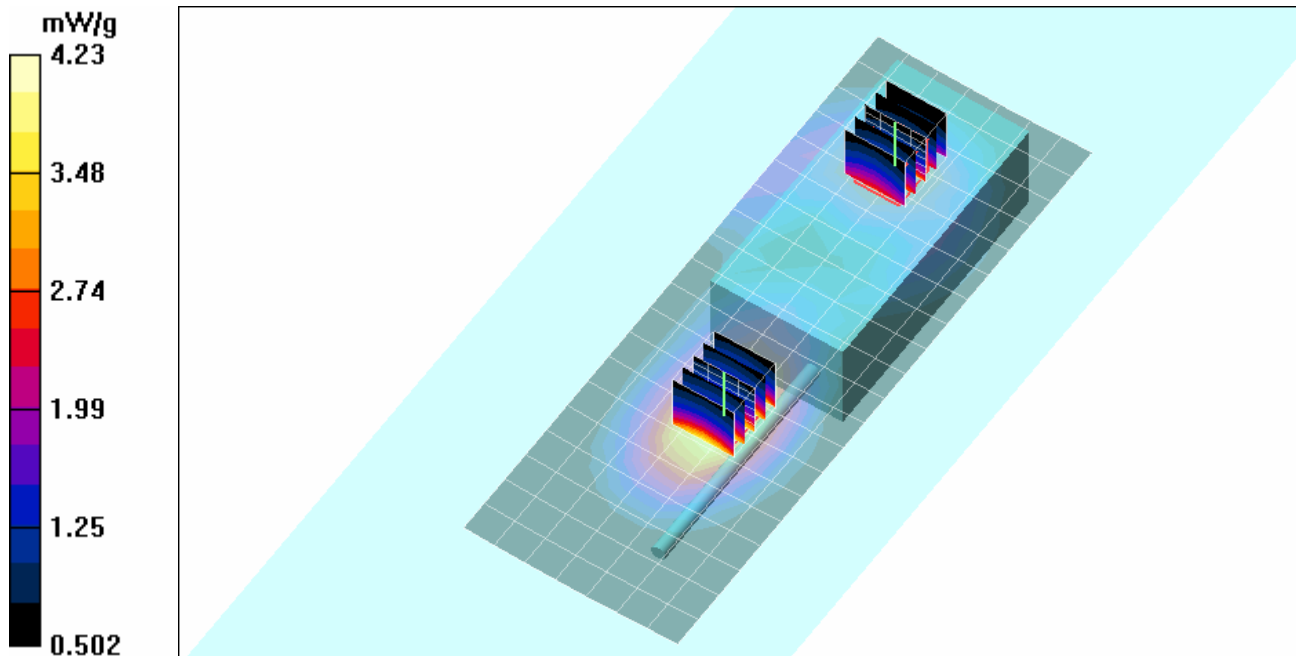
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.7 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 4.06 W/kg

SAR(1 g) = 3.09 mW/g; SAR(10 g) = 2.2 mW/g

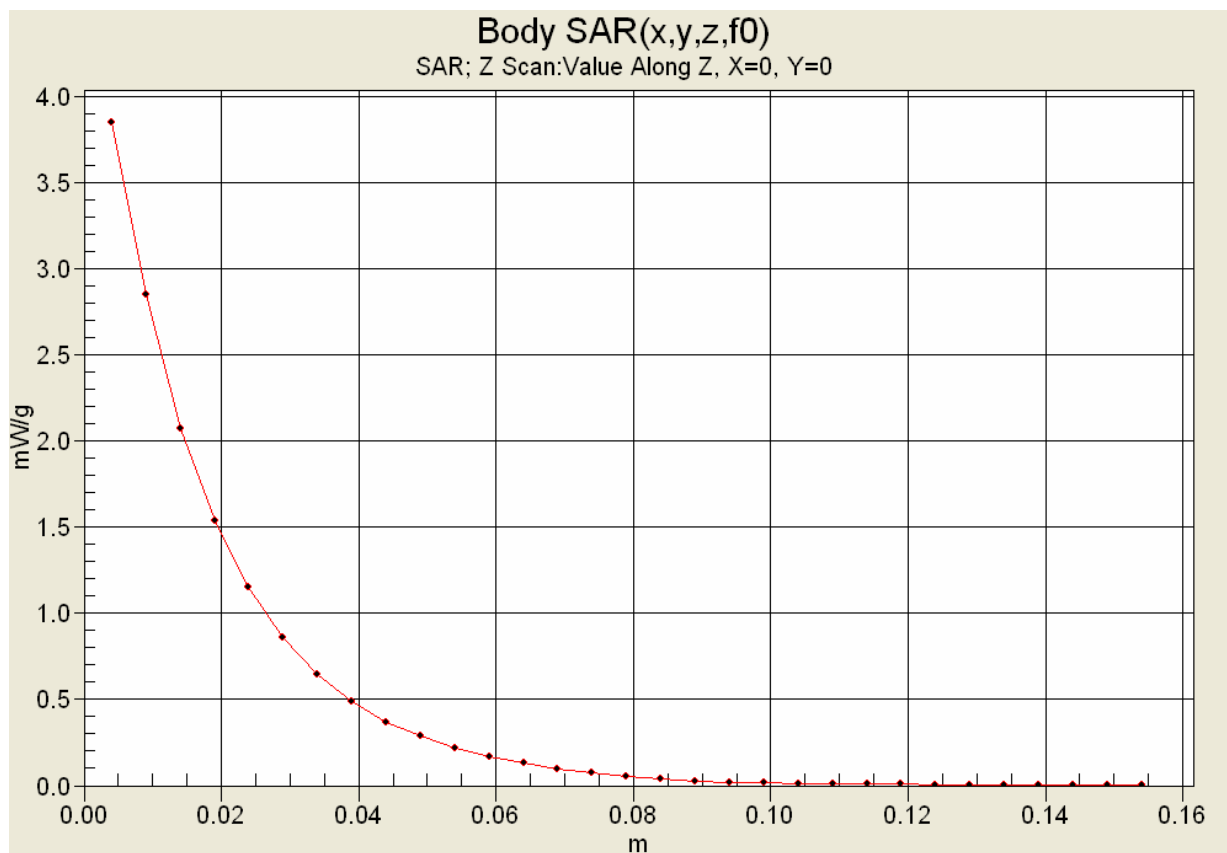
Maximum value of SAR (measured) = 3.30 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Z-Axis Scan



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – Li-Ion NIS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 10/07/2007

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.43 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 44.9 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 4.37 W/kg

SAR(1 g) = 3.34 mW/g; SAR(10 g) = 2.37 mW/g

Maximum value of SAR (measured) = 3.56 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

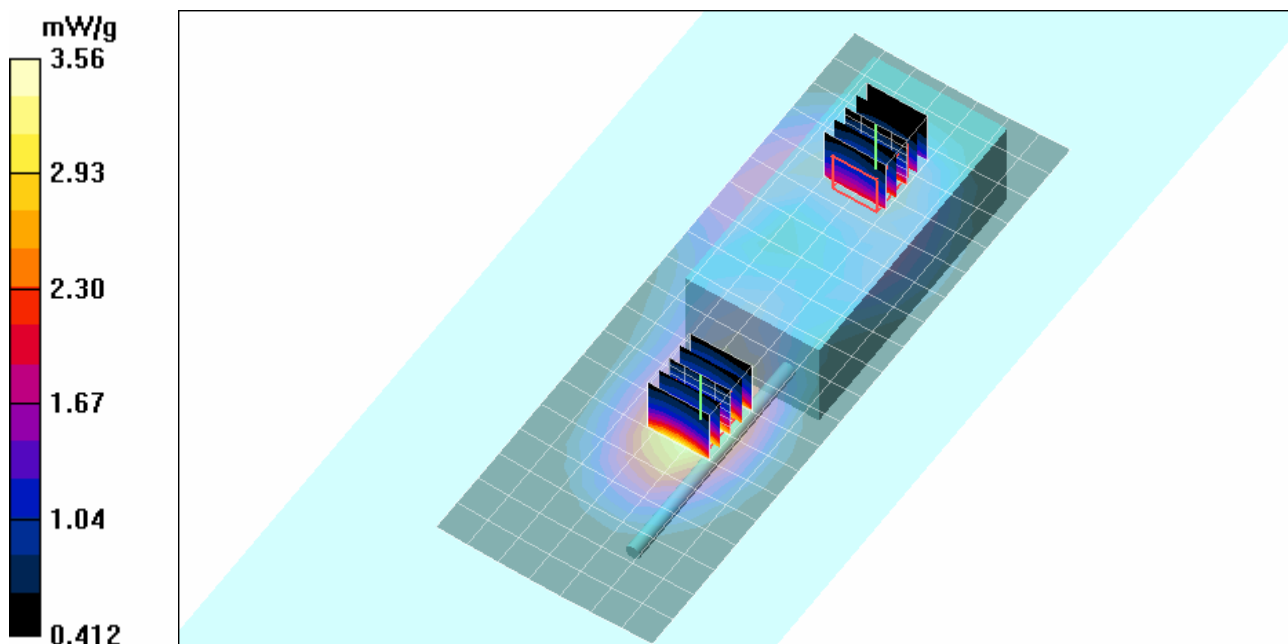
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 44.9 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.75 mW/g

Maximum value of SAR (measured) = 2.54 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – Li-Ion IS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: Quarter-wave Whip (P/N: KRE1011223/01)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 10/07/2007

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.72 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

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

Reference Value = 38.1 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 4.65 W/kg

SAR(1 g) = 3.79 mW/g; SAR(10 g) = 2.88 mW/g

Maximum value of SAR (measured) = 3.95 mW/g

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

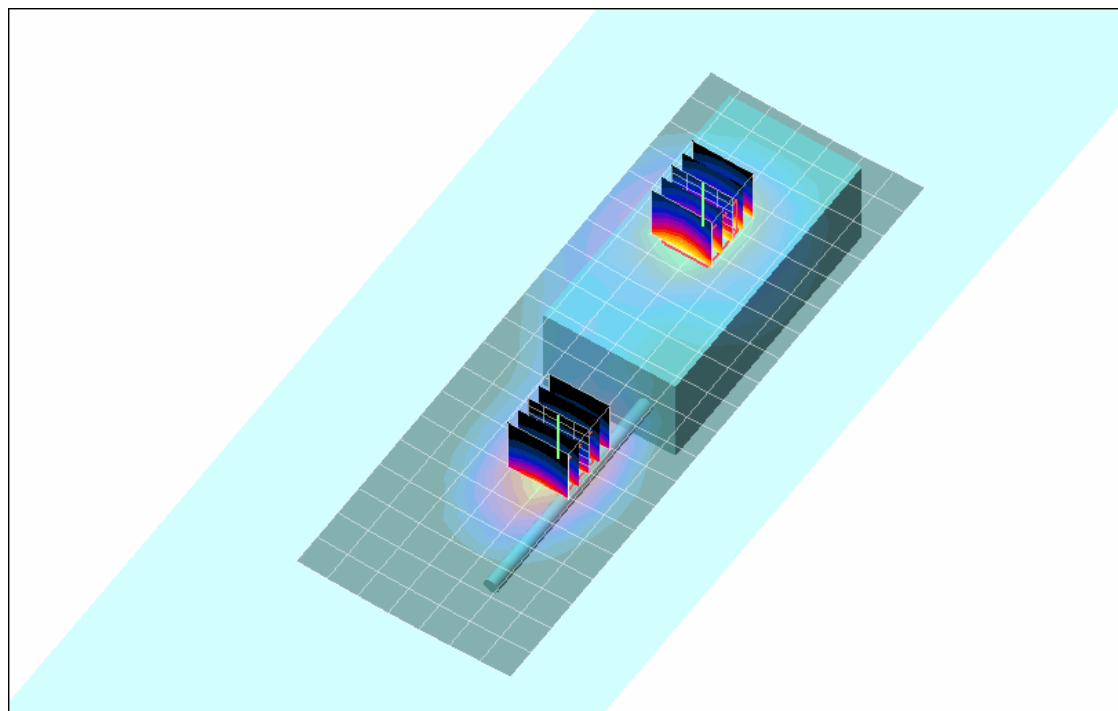
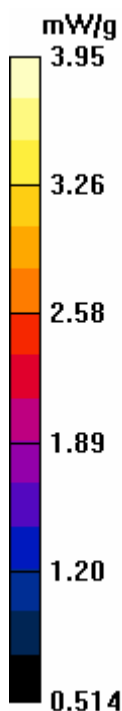
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.1 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.88 mW/g; SAR(10 g) = 2.05 mW/g

Maximum value of SAR (measured) = 3.07 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd NIS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

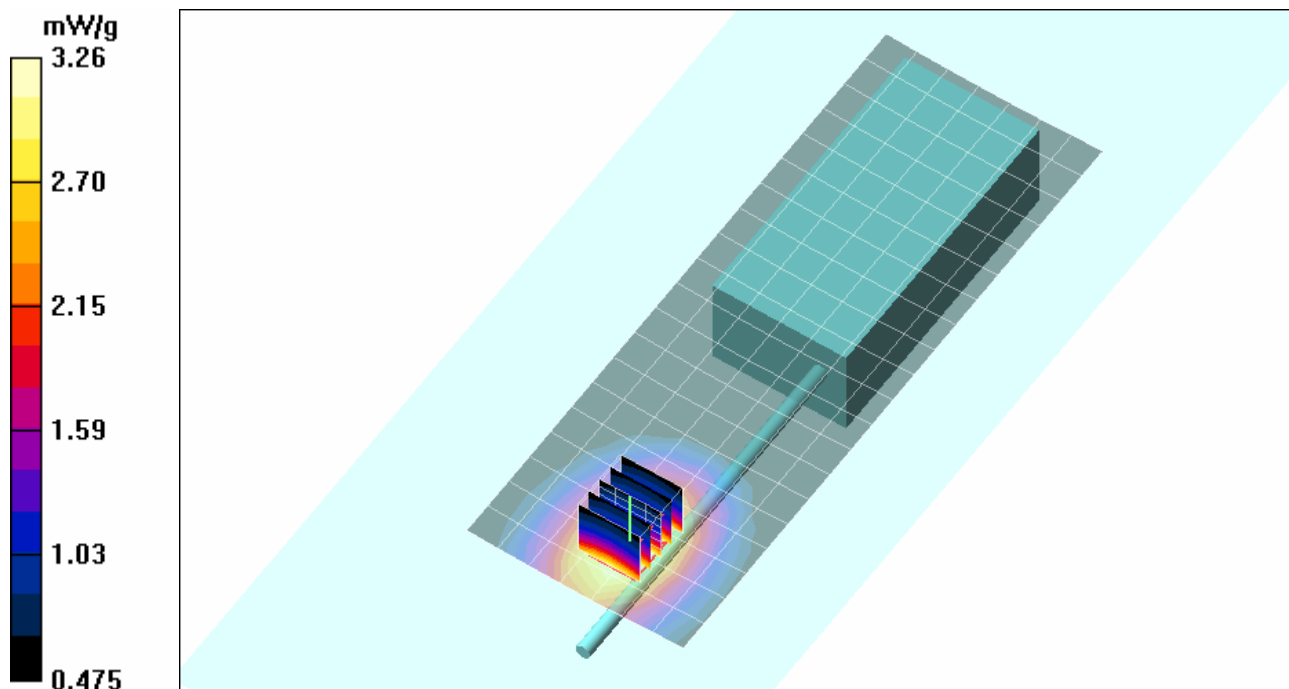
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.5 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 3.09 mW/g; SAR(10 g) = 2.25 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiCd IS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

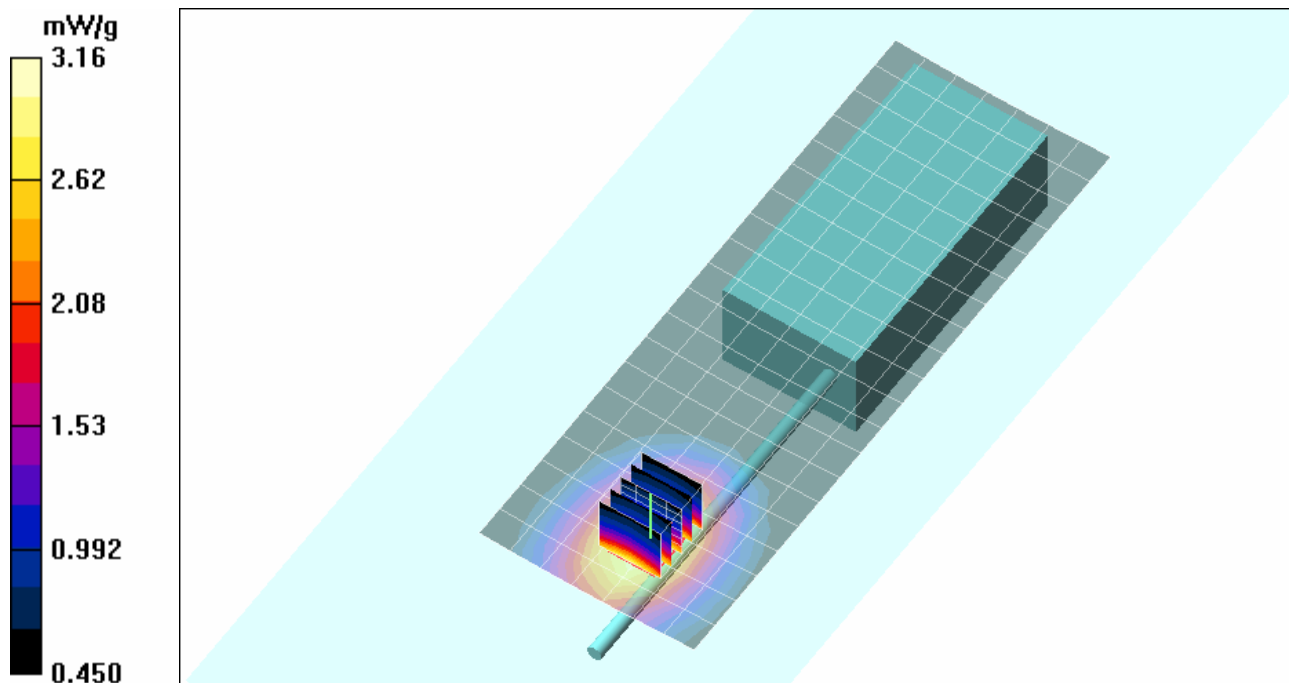
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.5 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 g) = 2.98 mW/g; SAR(10 g) = 2.16 mW/g

Maximum value of SAR (measured) = 3.16 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH NIS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

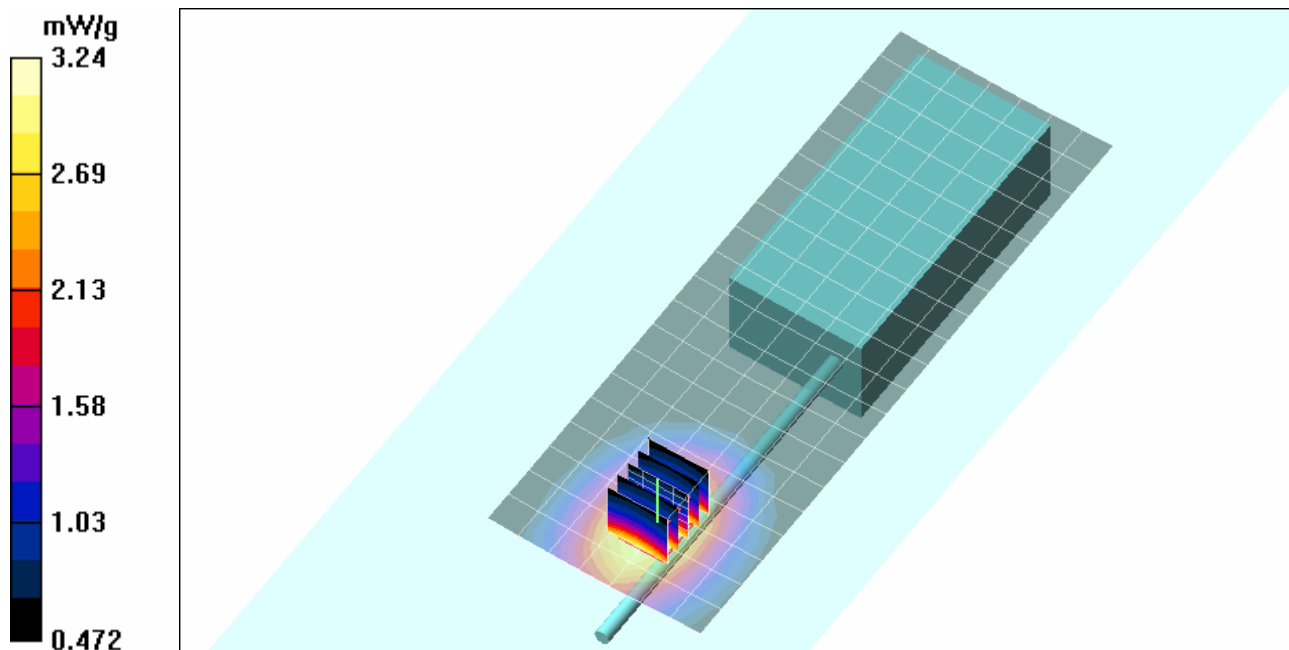
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.1 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 3.06 mW/g; SAR(10 g) = 2.22 mW/g

Maximum value of SAR (measured) = 3.24 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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 Testing and Engineering Services Ltd	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – NiMH IS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

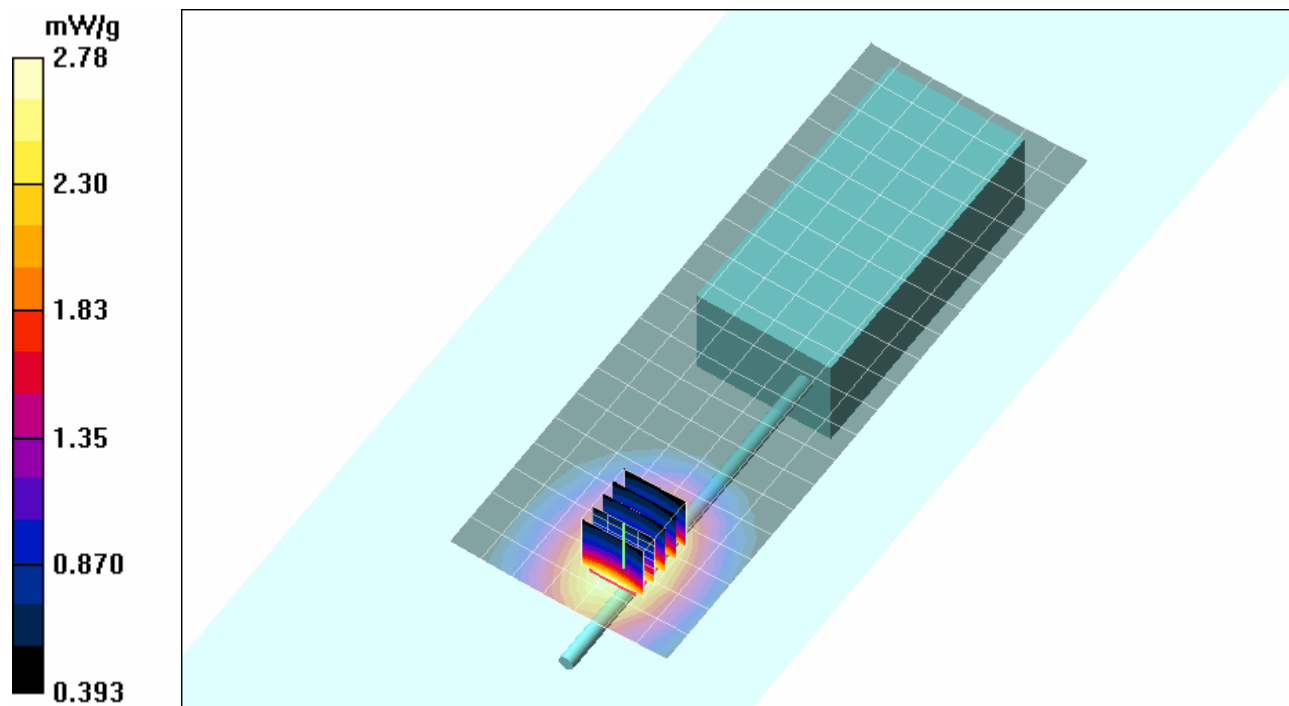
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m; Power Drift = -0.205 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 2.64 mW/g; SAR(10 g) = 1.93 mW/g

Maximum value of SAR (measured) = 2.78 mW/g



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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	<u>Date(s) of Evaluation</u> February 06-14, 2008	<u>Test Report Serial No.</u> 020508OWD-T883-S90F	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2008	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 02/07/2008

Body-Worn SAR – Scan Radio – Li-Ion NIS Battery – Band 2 – 868.9875 MHz

DUT: M/A-COM Model: P5400; Type: Portable PTT Radio Transceiver; Serial: T1-8M-018

Ambient Temp: 24.1°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

Antenna: High Gain (P/N: KRE1011506/1)

Medium: M835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 56.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.18, 6.18, 6.18); Calibrated: 16/03/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (8x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn SAR – 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

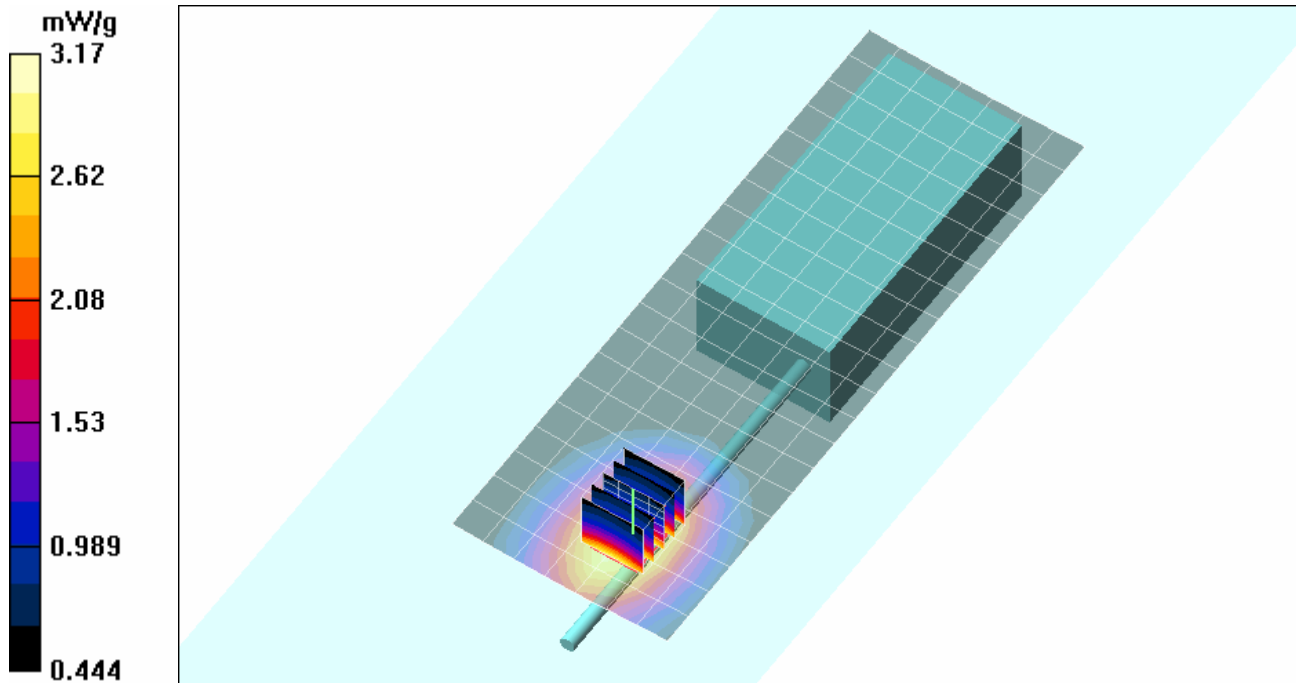
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.4 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 2.99 mW/g; SAR(10 g) = 2.17 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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