

	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

APPENDIX A - SAR MEASUREMENT DATA

Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - NiCd NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, non-IS (P/N: BT-023406-001)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.91 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

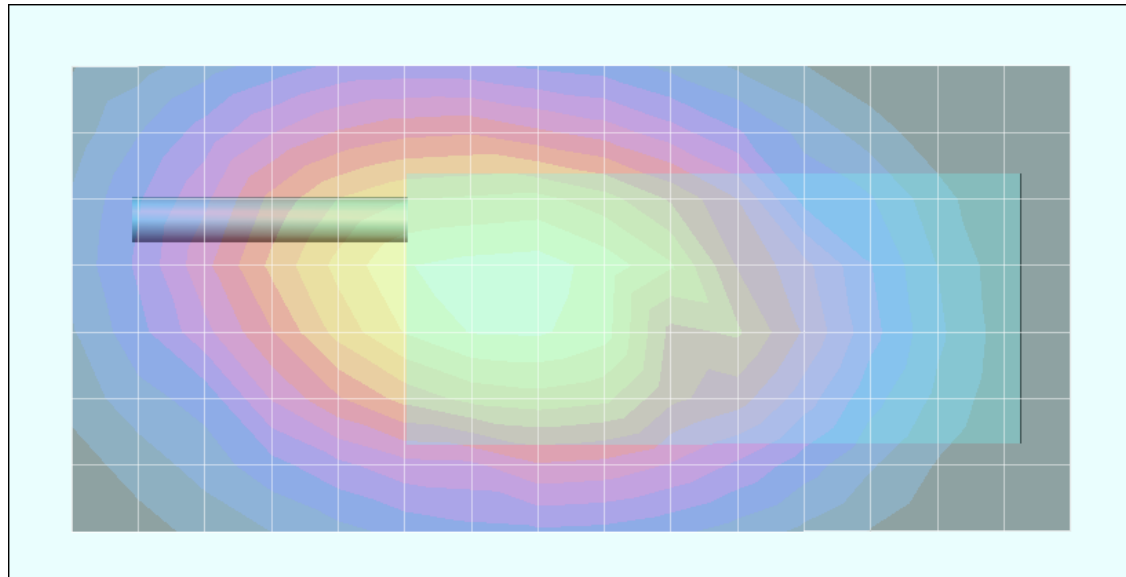
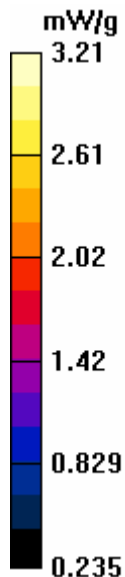
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 60.7 V/m; Power Drift = -0.0515 dB

Peak SAR (extrapolated) = 4.83 W/kg

SAR(1 g) = 3.07 mW/g; SAR(10 g) = 2.17 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 08/09/2007

Face-Held SAR - NiCd IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 23.3°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.91 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

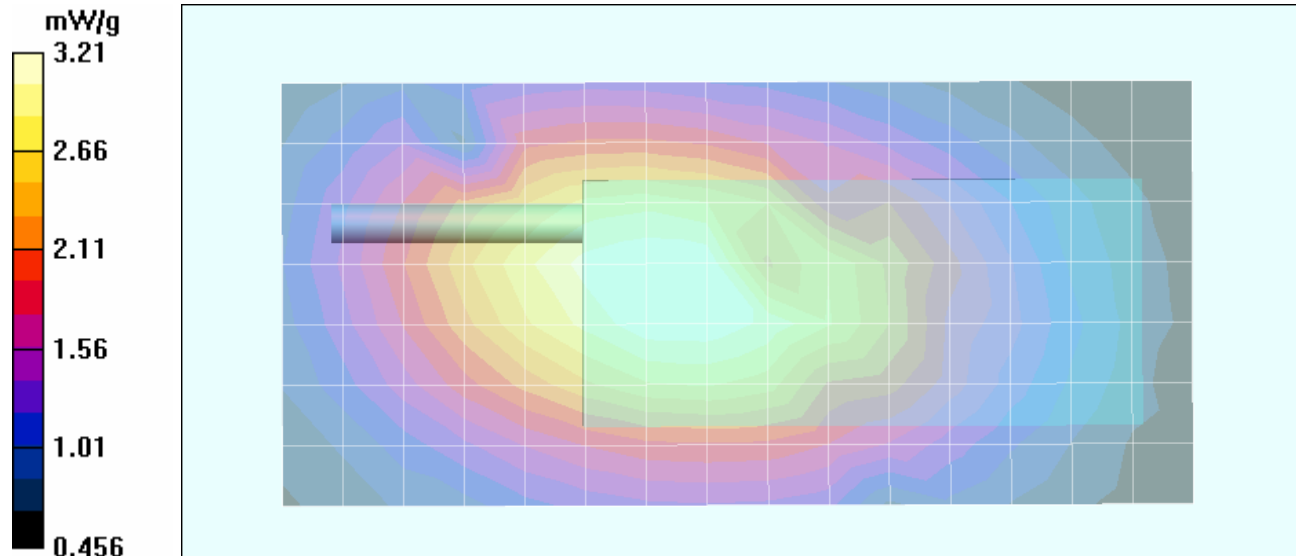
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 61.5 V/m; Power Drift = -0.500 dB

Peak SAR (extrapolated) = 4.87 W/kg

SAR(1 g) = 3.09 mW/g; SAR(10 g) = 2.13 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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Date Tested: 08/02/2007

Face-Held SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); 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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.11 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

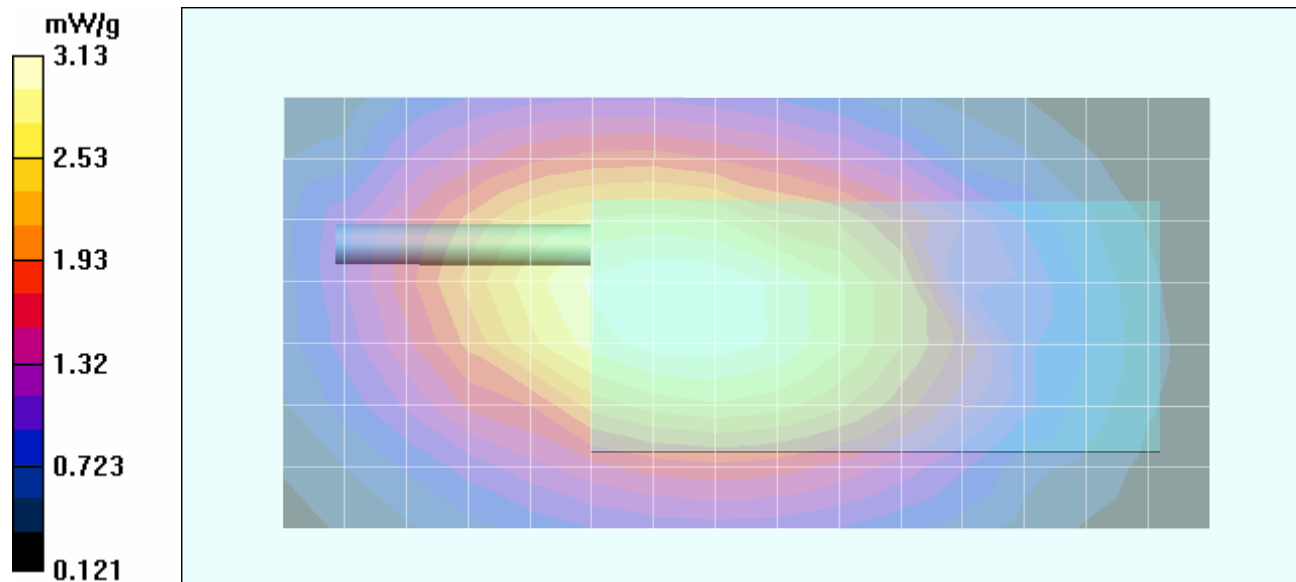
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.6 V/m; Power Drift = -0.0419 dB

Peak SAR (extrapolated) = 4.64 W/kg

SAR(1 g) = 2.97 mW/g; SAR(10 g) = 2.1 mW/g

Maximum value of SAR (measured) = 3.13 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Face-Held SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 23.3°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.98 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

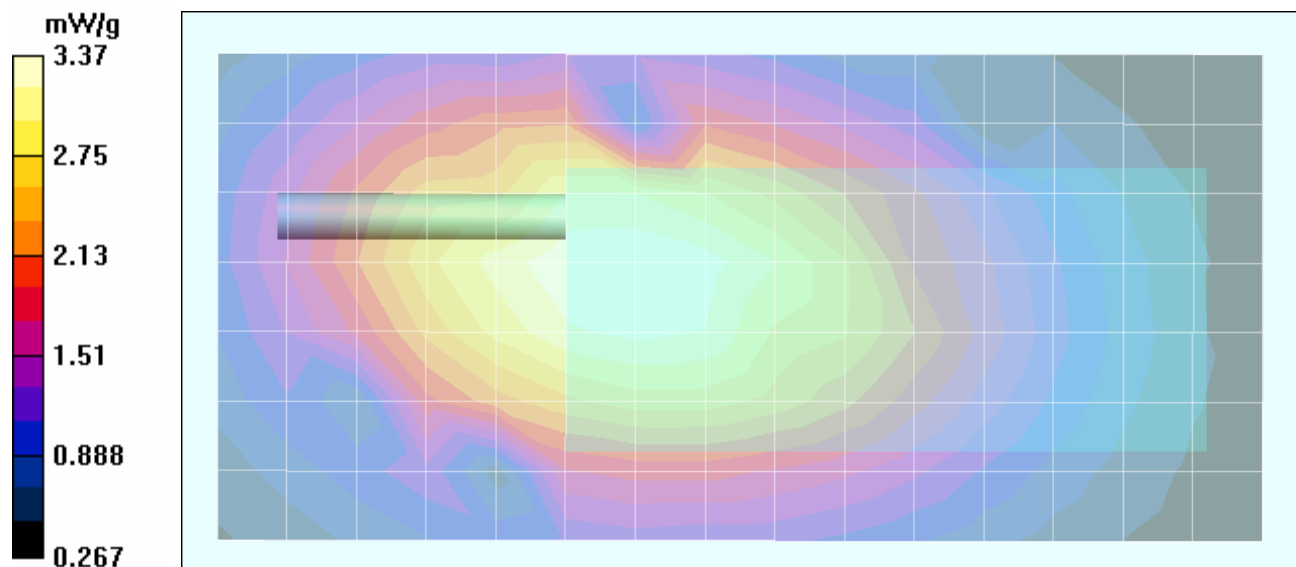
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.2 V/m; Power Drift = -0.567 dB

Peak SAR (extrapolated) = 4.61 W/kg

SAR(1 g) = 3.10 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 3.37 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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				Certificate No. 2470.01

Date Tested: 08/02/2007

Face-Held SAR - Li-ion NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, non-IS (P/N: BT-023406-005)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.13 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

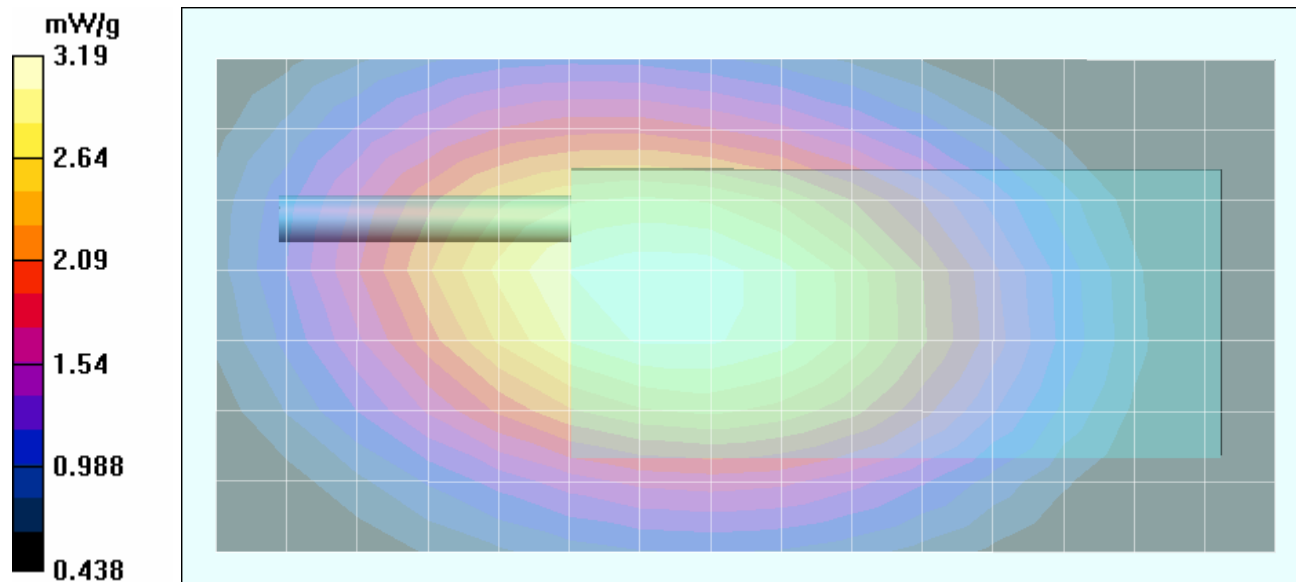
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.0 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 4.76 W/kg

SAR(1 g) = 3.06 mW/g; SAR(10 g) = 2.19 mW/g

Maximum value of SAR (measured) = 3.19 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - Li-ion IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, IS (P/N: BT-023406-006)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

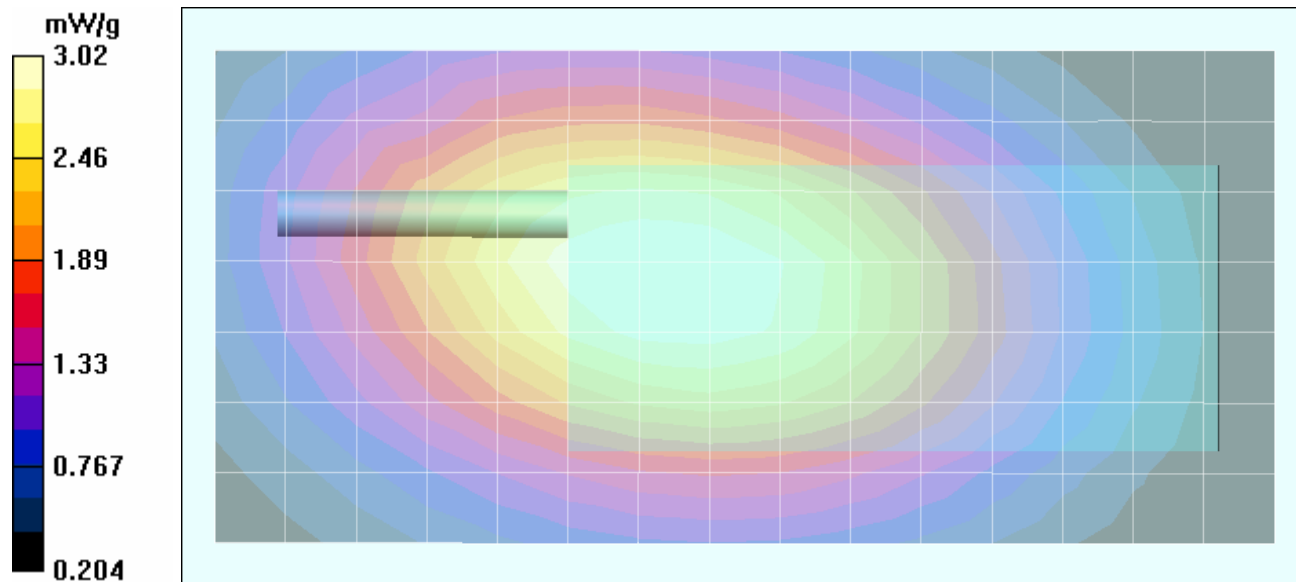
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.4 V/m; Power Drift = -0.0825 dB

Peak SAR (extrapolated) = 4.47 W/kg

SAR(1 g) = 2.87 mW/g; SAR(10 g) = 2.03 mW/g

Maximum value of SAR (measured) = 3.02 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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				Certificate No. 2470.01

Date Tested: 08/02/2007

Face-Held SAR - NiCd NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, non-IS (P/N: BT-023406-001)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

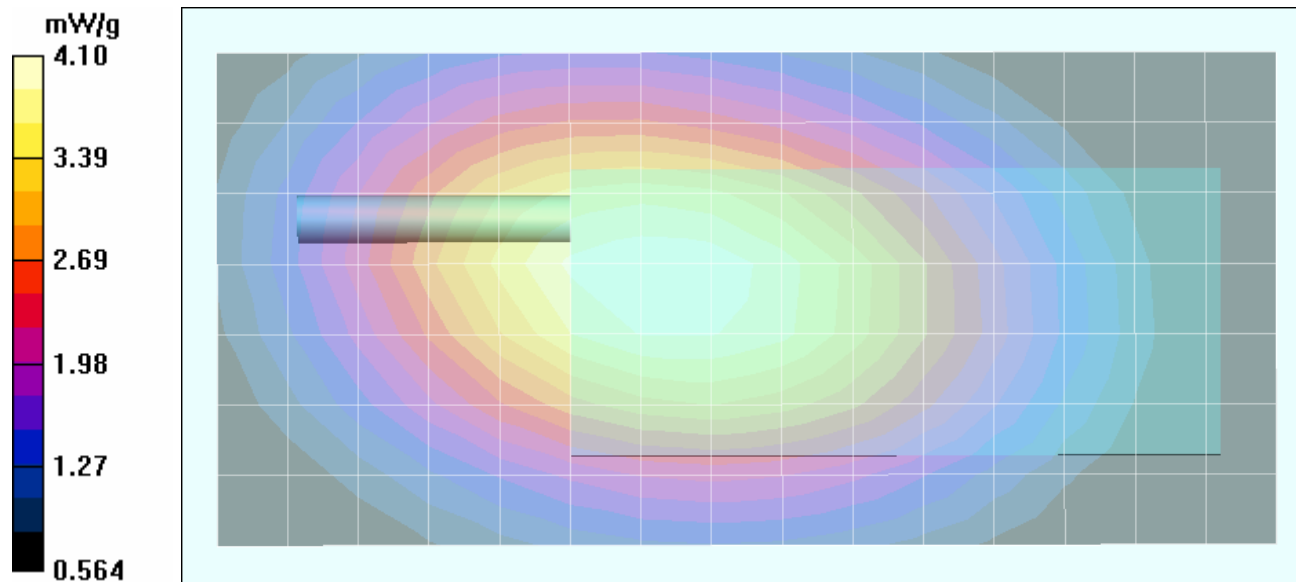
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 66.0 V/m; Power Drift = -0.0948 dB

Peak SAR (extrapolated) = 6.16 W/kg

SAR(1 g) = 3.93 mW/g; SAR(10 g) = 2.81 mW/g

Maximum value of SAR (measured) = 4.10 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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Date Tested: 08/09/2007

Face-Held SAR - NiCd IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 23.3°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.13 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

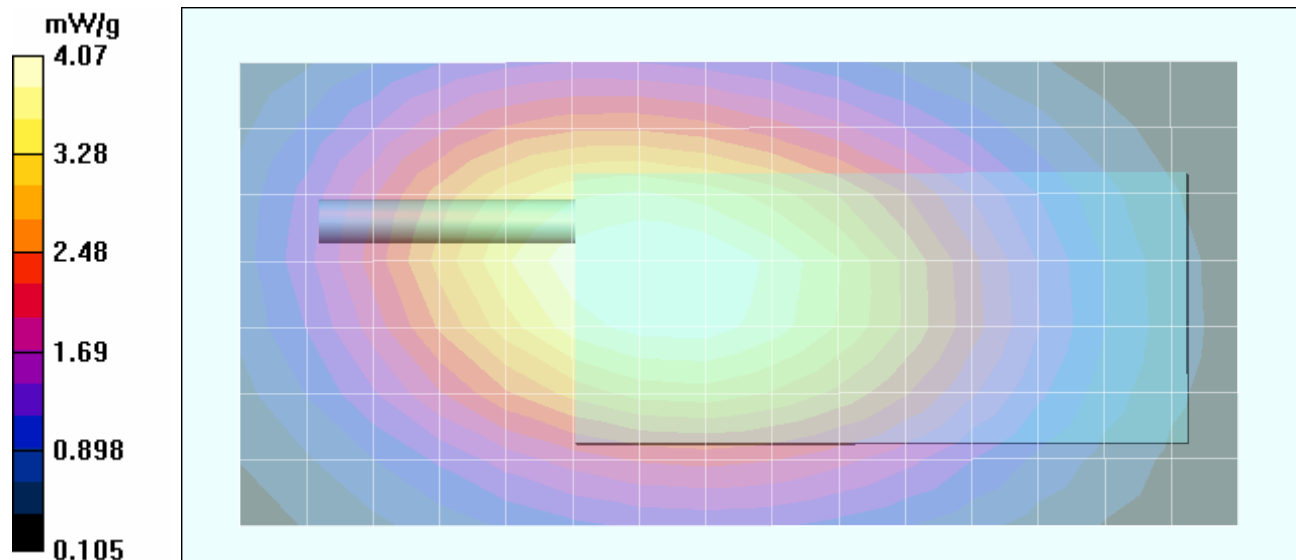
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 69.4 V/m; Power Drift = -0.369 dB

Peak SAR (extrapolated) = 9.33 W/kg

SAR(1 g) = 3.84 mW/g; SAR(10 g) = 2.67 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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Date Tested: 08/02/2007

Face-Held SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.26 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

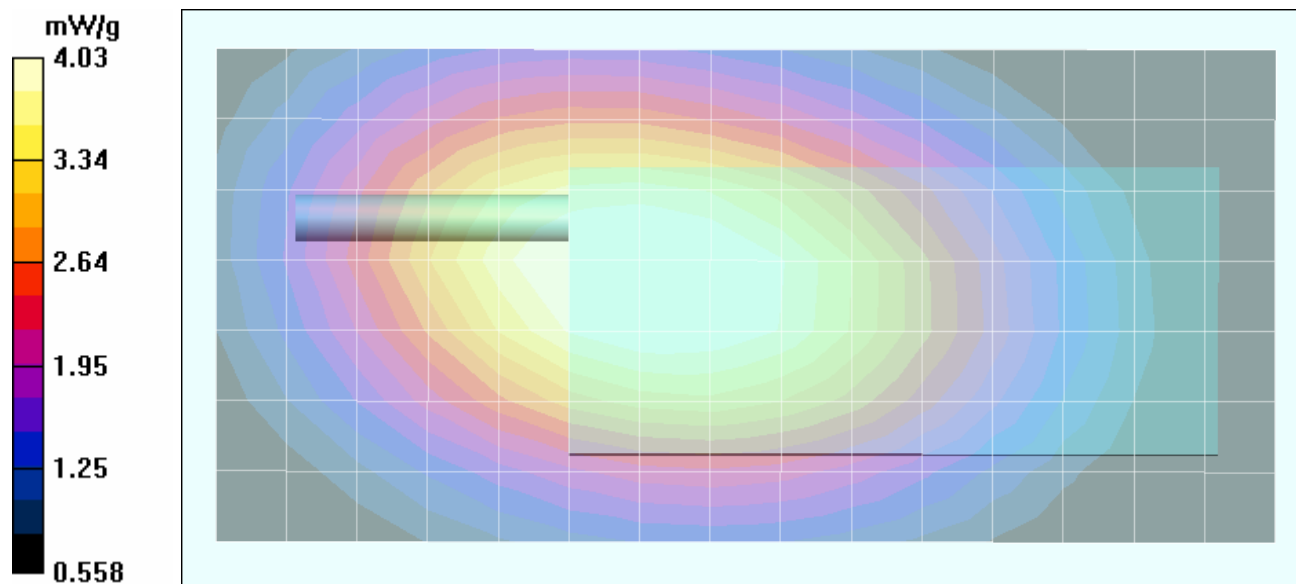
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 65.5 V/m; Power Drift = -0.0617 dB

Peak SAR (extrapolated) = 5.96 W/kg

SAR(1 g) = 3.86 mW/g; SAR(10 g) = 2.77 mW/g

Maximum value of SAR (measured) = 4.03 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Face-Held SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 23.3°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.30 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

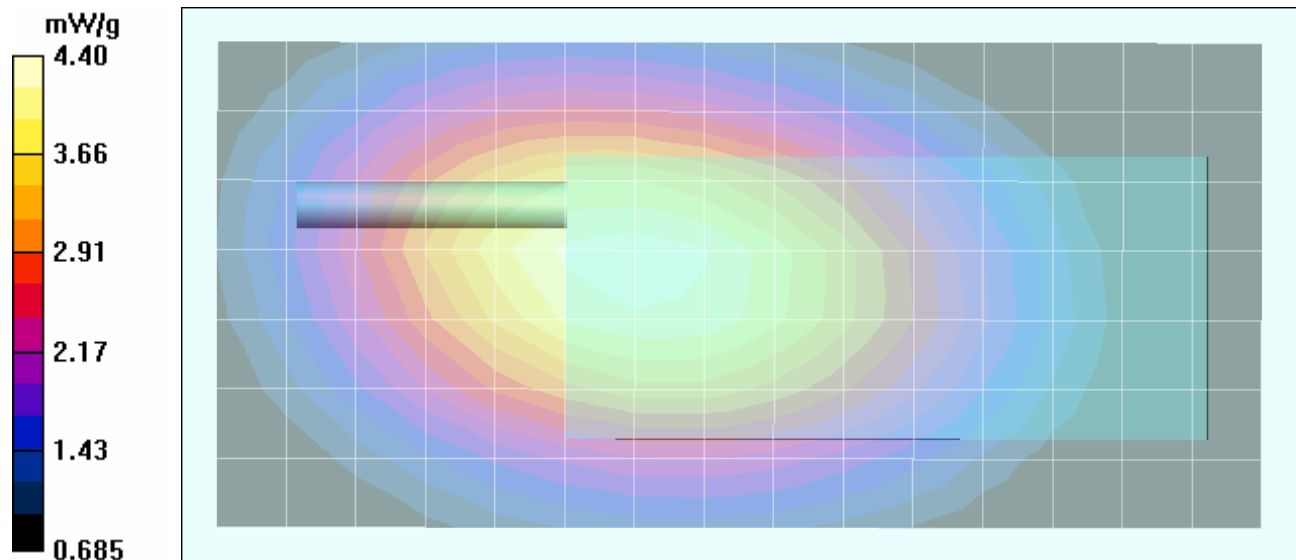
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 69.4 V/m; Power Drift = -0.0335 dB

Peak SAR (extrapolated) = 6.48 W/kg

SAR(1 g) = 4.23 mW/g; SAR(10 g) = 3.07 mW/g

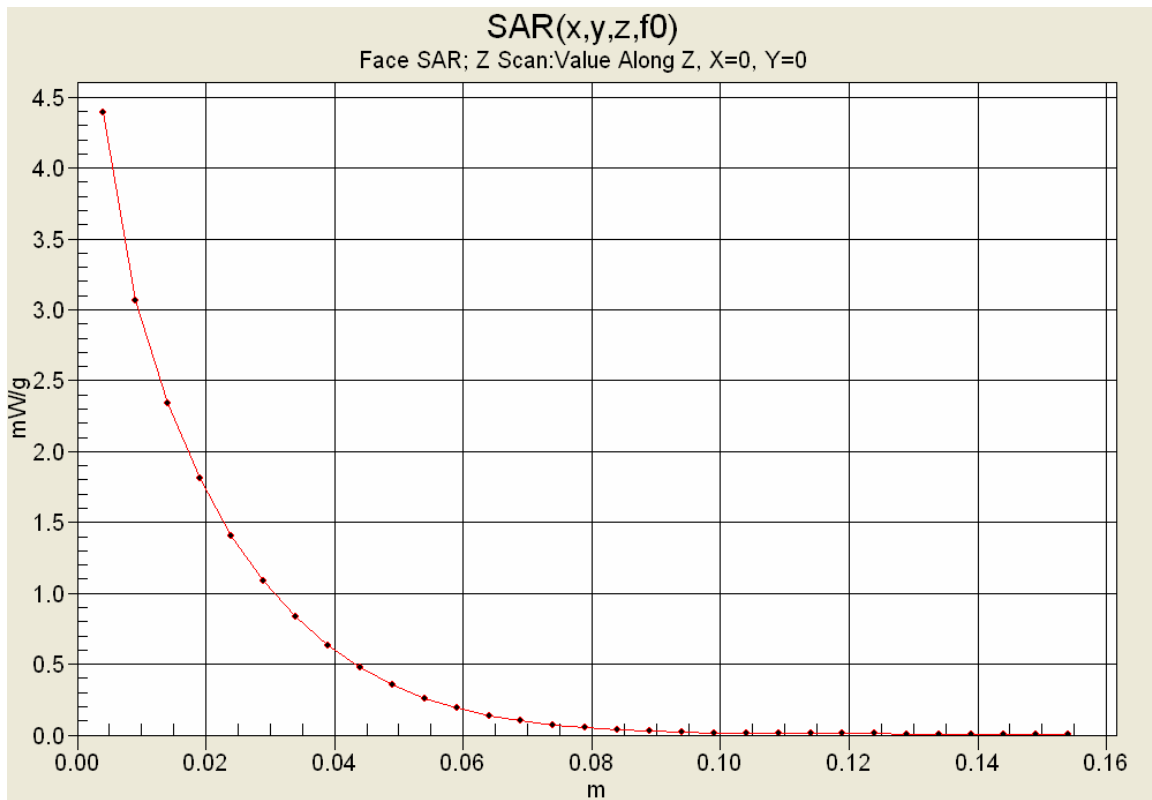
Maximum value of SAR (measured) = 4.40 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<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	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - Li-ion NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, non-IS (P/N: BT-023406-005)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.02 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

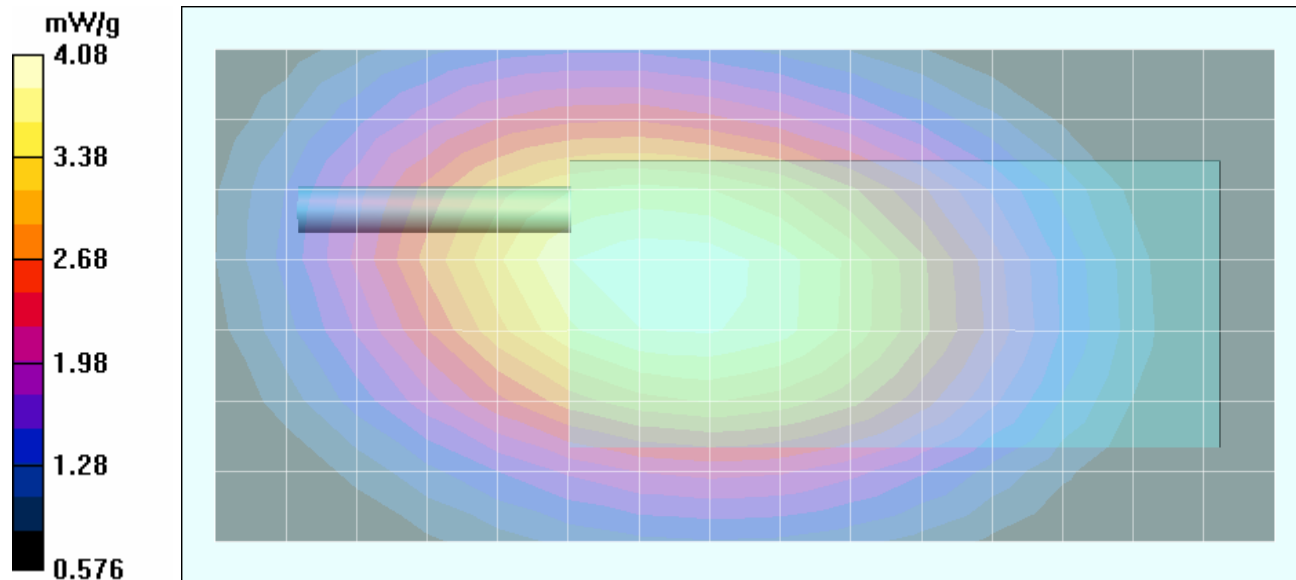
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 66.4 V/m; Power Drift = -0.0688 dB

Peak SAR (extrapolated) = 6.10 W/kg

SAR(1 g) = 3.92 mW/g; SAR(10 g) = 2.79 mW/g

Maximum value of SAR (measured) = 4.08 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - Li-ion IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, IS (P/N: BT-023406-006)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.06 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

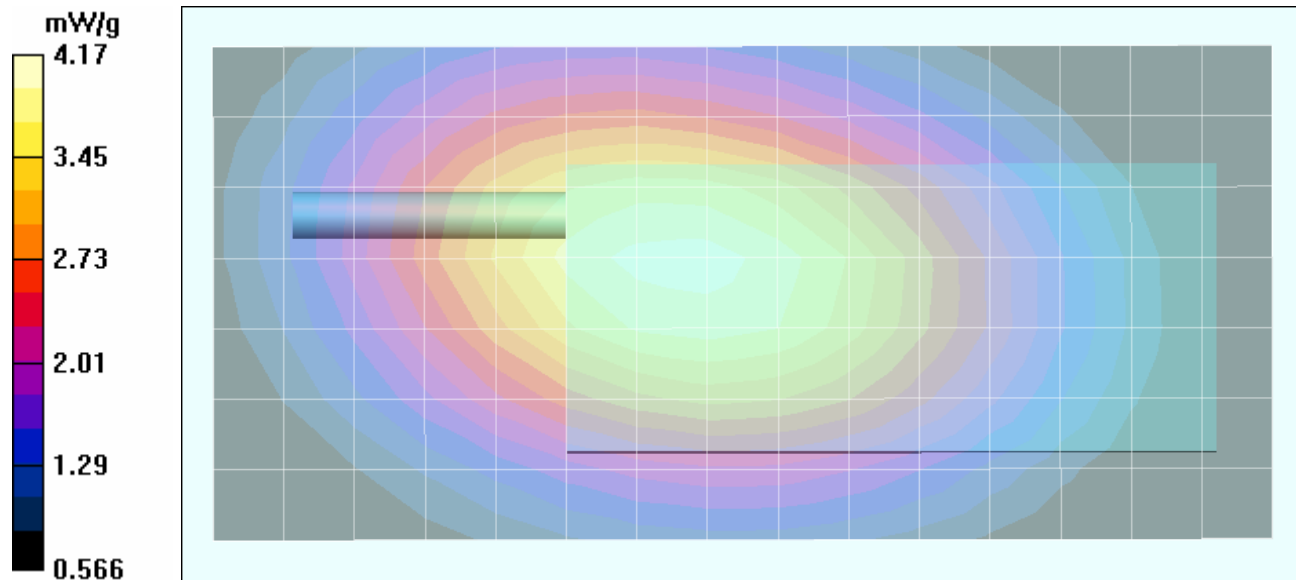
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 65.3 V/m; Power Drift = -0.0210 dB

Peak SAR (extrapolated) = 6.21 W/kg

SAR(1 g) = 4.01 mW/g; SAR(10 g) = 2.87 mW/g

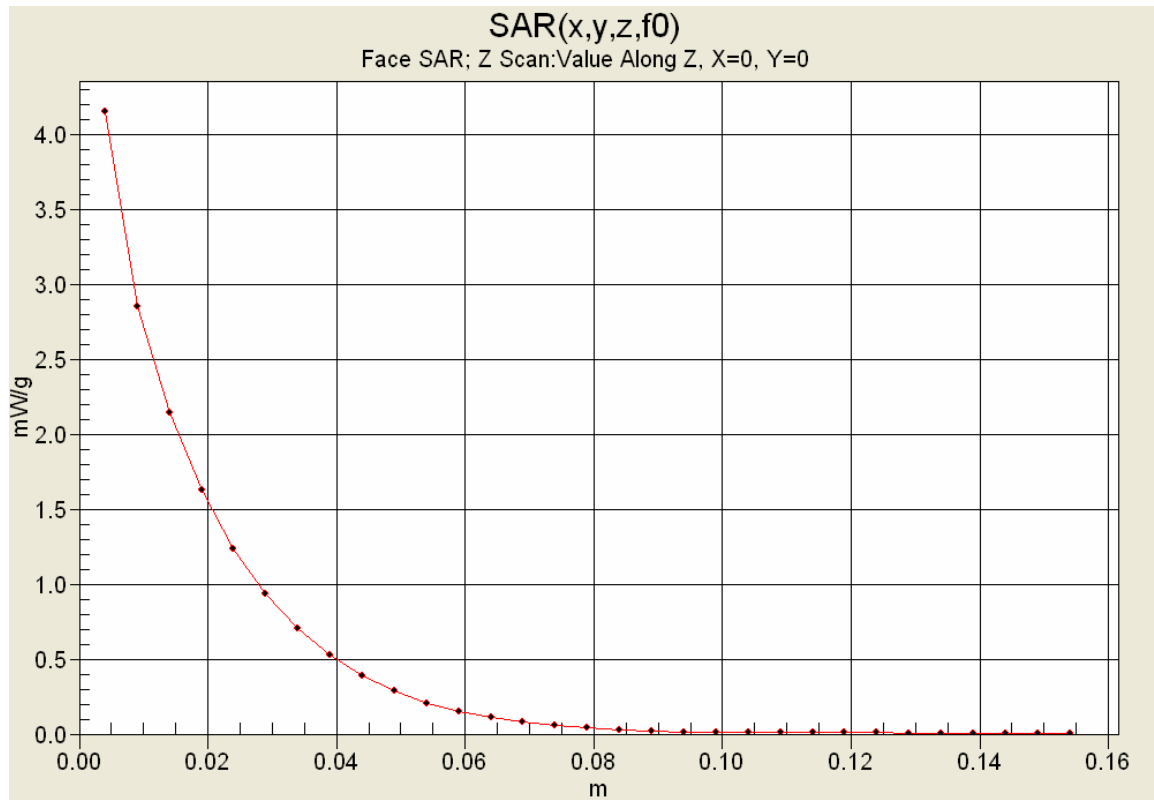
Maximum value of SAR (measured) = 4.17 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<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	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - NiCd NIS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, non-IS (P/N: BT-023406-001)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 3.32 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

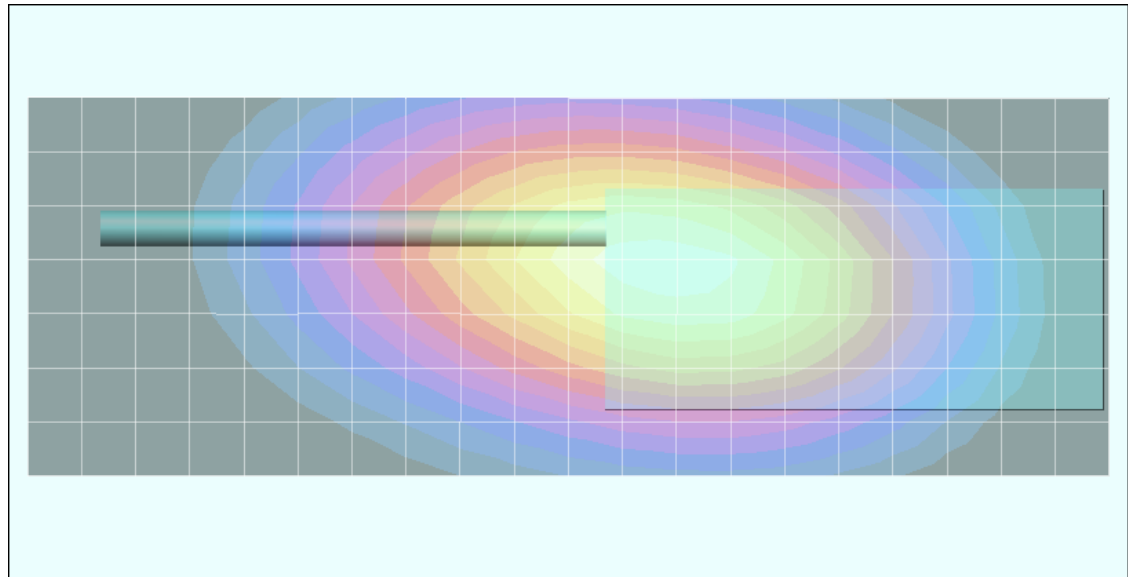
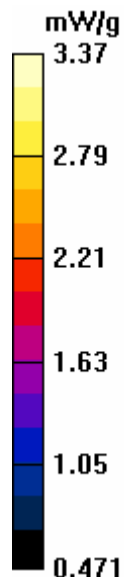
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 61.2 V/m; Power Drift = 0.0160 dB

Peak SAR (extrapolated) = 5.01 W/kg

SAR(1 g) = 3.24 mW/g; SAR(10 g) = 2.33 mW/g

Maximum value of SAR (measured) = 3.37 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Face-Held SAR - NiCd IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 23.3°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 2.84 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

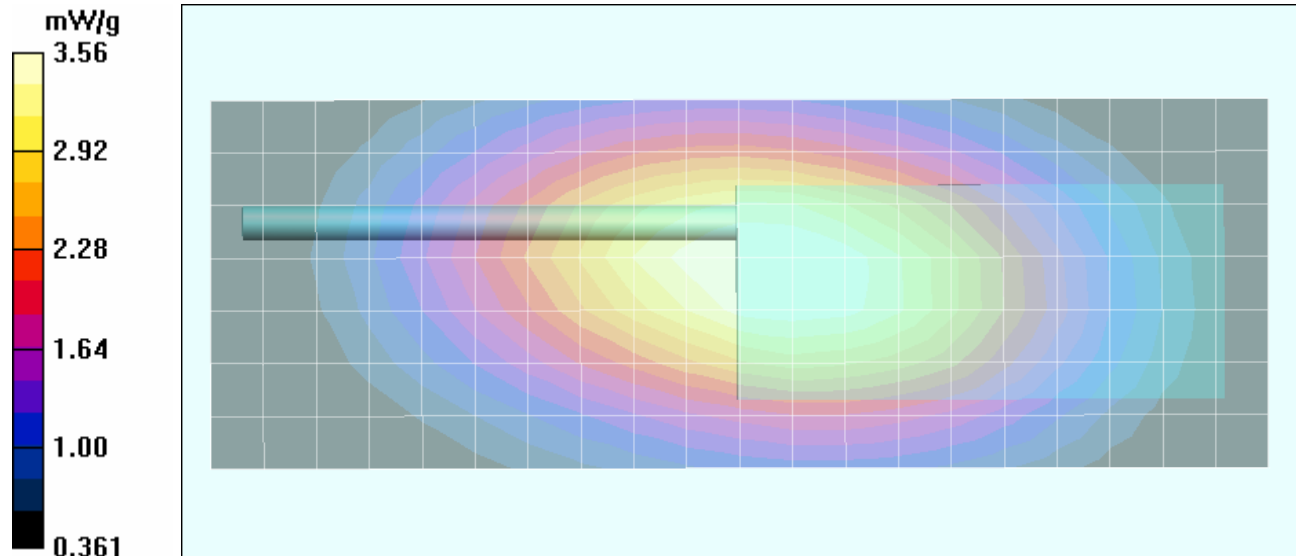
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 64.3 V/m; Power Drift = -0.411 dB

Peak SAR (extrapolated) = 5.14 W/kg

SAR(1 g) = 3.40 mW/g; SAR(10 g) = 2.45 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - NiMH NIS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 3.29 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

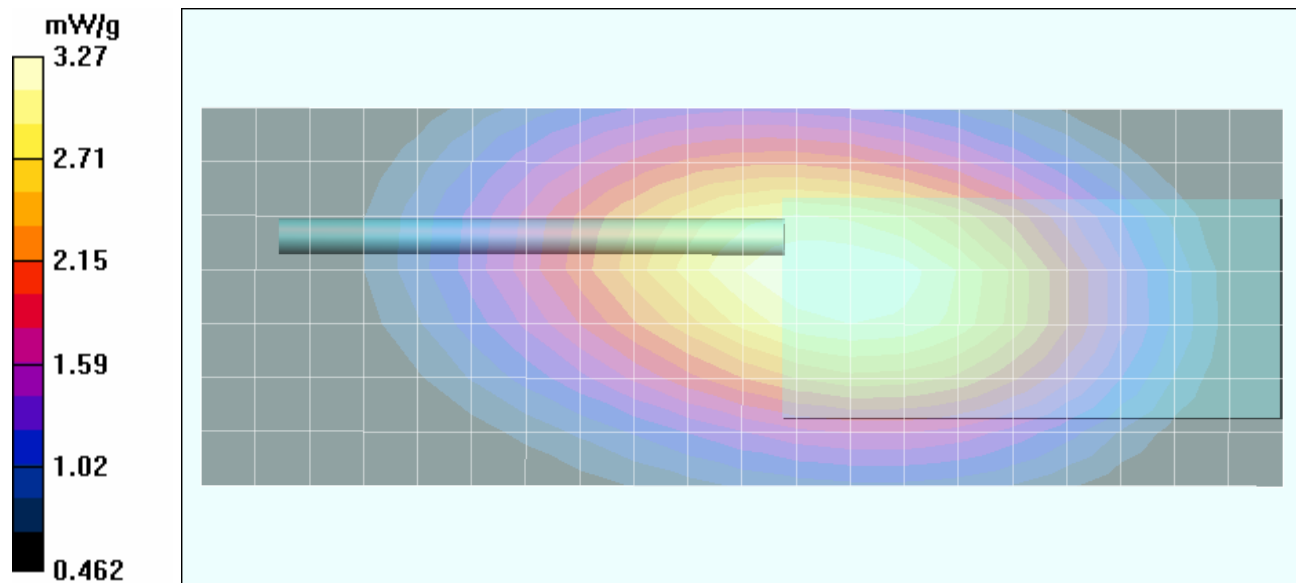
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.7 V/m; Power Drift = -0.00712 dB

Peak SAR (extrapolated) = 4.85 W/kg

SAR(1 g) = 3.15 mW/g; SAR(10 g) = 2.27 mW/g

Maximum value of SAR (measured) = 3.27 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Face-Held SAR - NiMH IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 23.3°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 3.65 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

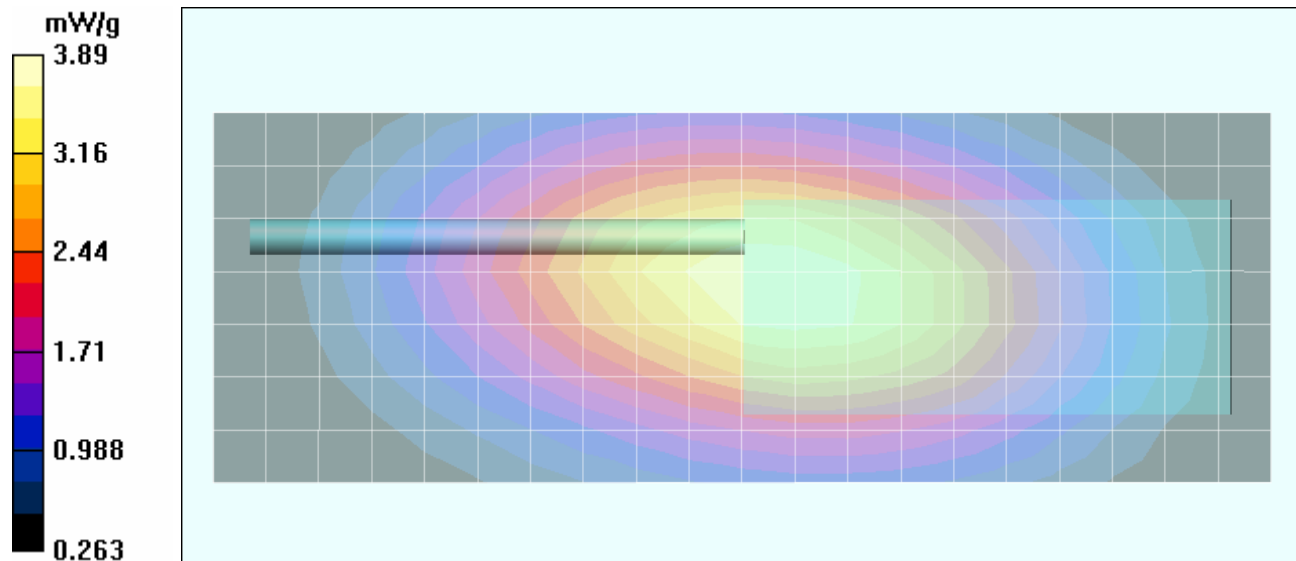
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 67.1 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 5.65 W/kg

SAR(1 g) = 3.74 mW/g; SAR(10 g) = 2.71 mW/g

Maximum value of SAR (measured) = 3.89 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - Li-ion NIS Battery - $\frac{1}{4}$ -Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, non-IS (P/N: BT-023406-005)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

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

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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

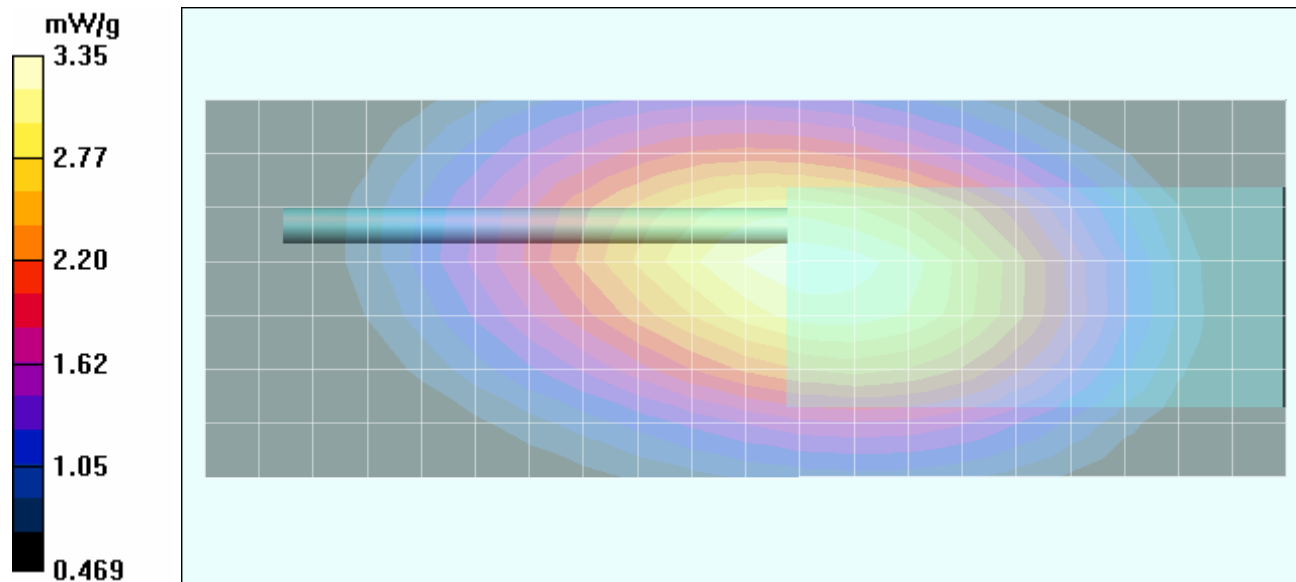
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 60.9 V/m; Power Drift = 0.00154 dB

Peak SAR (extrapolated) = 5.00 W/kg

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

Maximum value of SAR (measured) = 3.35 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/02/2007

Face-Held SAR - Li-ion IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Ambient Temp: 25.2°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, IS (P/N: BT-023406-006)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

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

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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

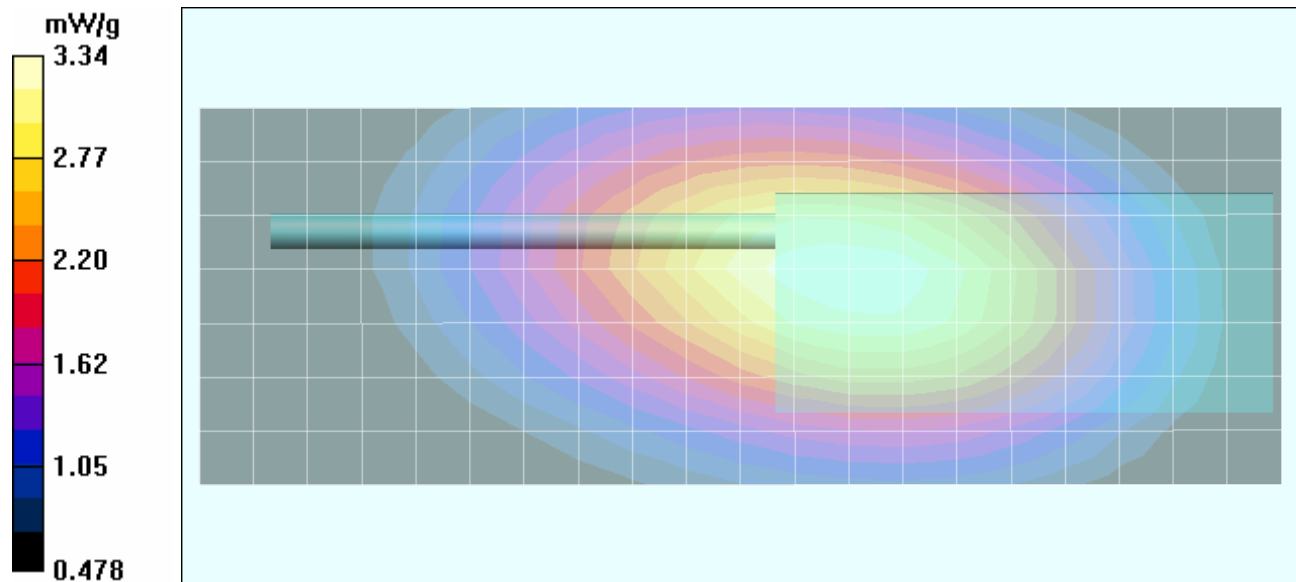
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.3 V/m; Power Drift = 0.00547 dB

Peak SAR (extrapolated) = 4.97 W/kg

SAR(1 g) = 3.21 mW/g; SAR(10 g) = 2.3 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/10/2007

Face-Held SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400; Type: Portable Radio w/ PTT Speaker-Microphone with Antenna; P/N: MC-023933-002

Ambient Temp: 21.1°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.4 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.517 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

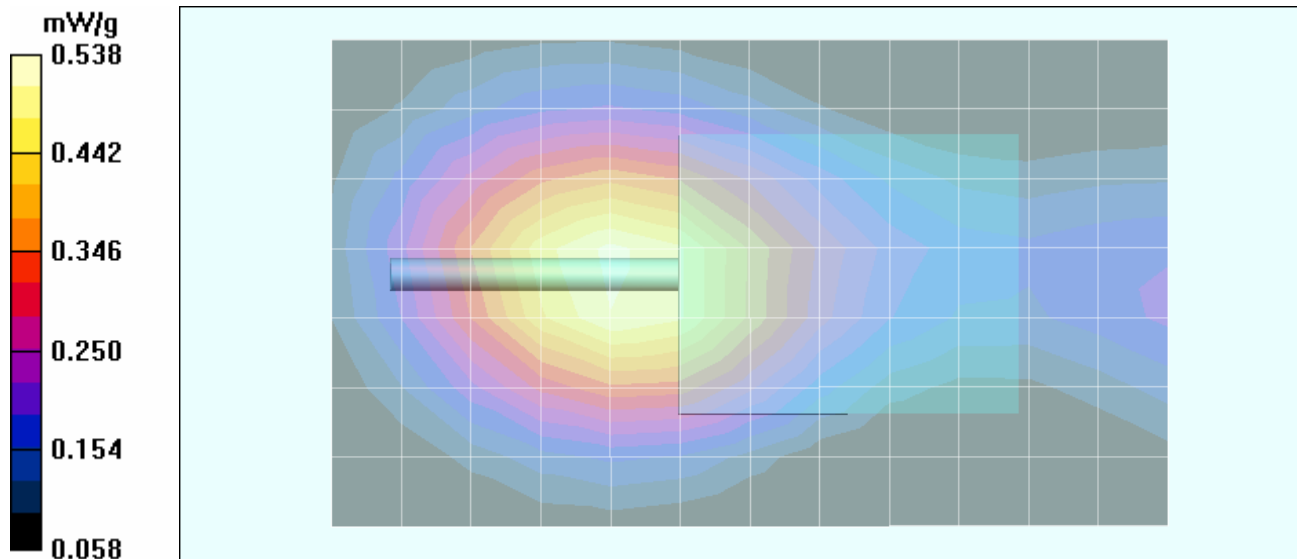
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.3 V/m; Power Drift = -0.0179 dB

Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.538 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
				Certificate No. 2470.01

Date Tested: 08/10/2007

Face-Held SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400; Type: Portable Radio w/ PTT Speaker-Microphone with Antenna; P/N: MC-023933-002

Ambient Temp: 21.1°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.4 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.370 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

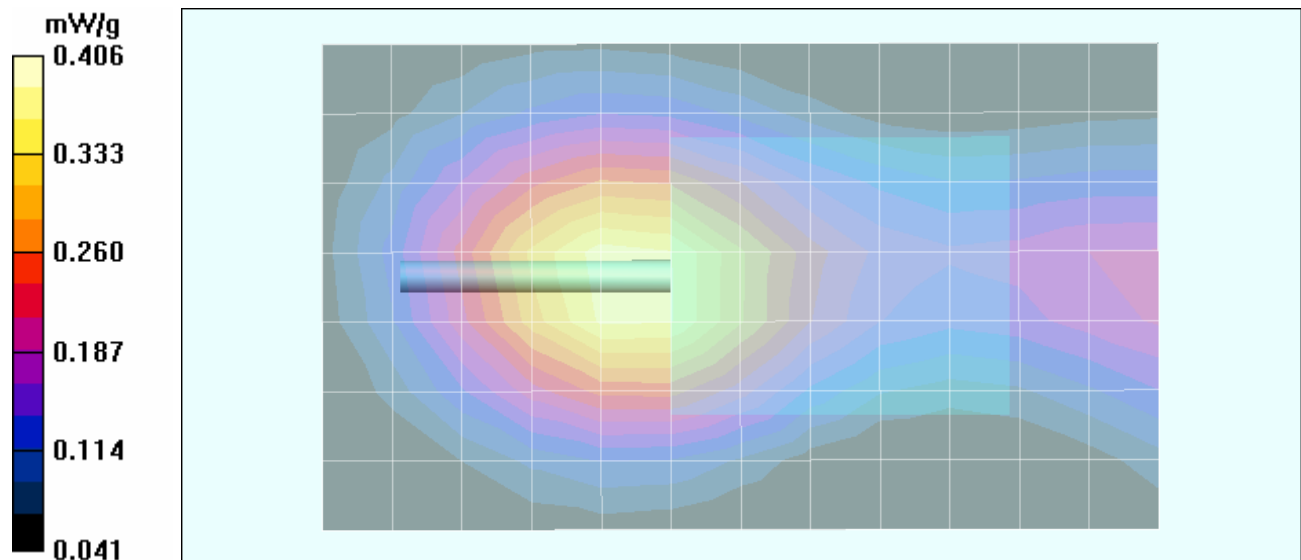
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.0 V/m; Power Drift = 0.229 dB

Peak SAR (extrapolated) = 0.628 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.406 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/10/2007

Face-Held SAR - NiMH IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400; Type: Portable Radio w/ PTT Speaker-Microphone with Antenna; P/N: MC-023933-002

Ambient Temp: 21.1°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.4 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.486 mW/g

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

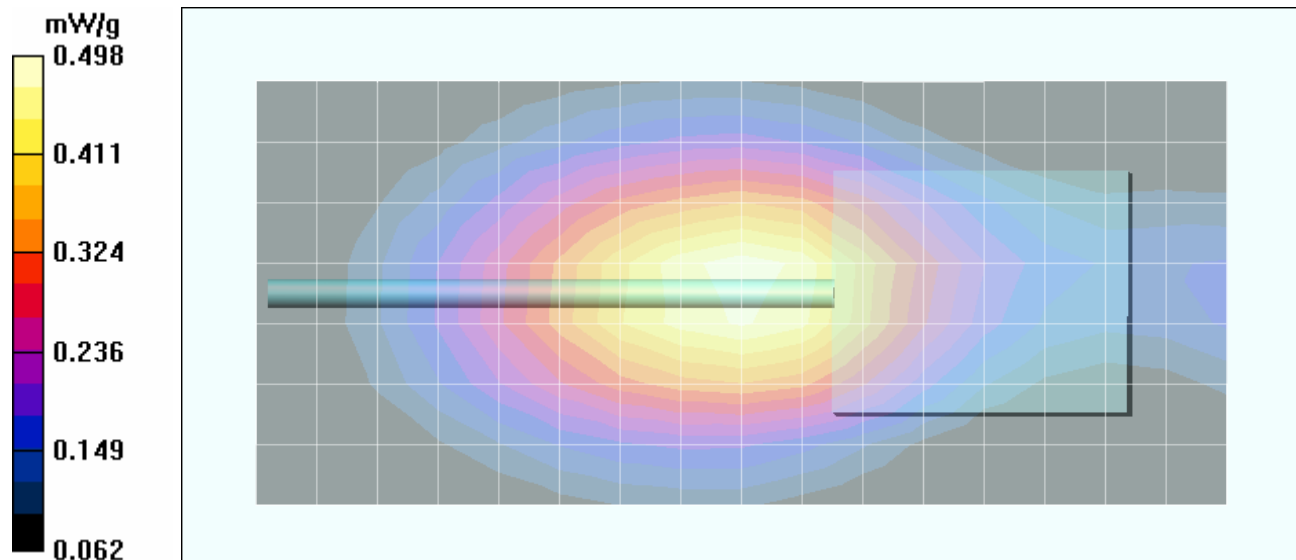
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.0 V/m; Power Drift = 0.00017 dB

Peak SAR (extrapolated) = 0.757 W/kg

SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.334 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/10/2007

Face-Held SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (System Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-003

Ambient Temp: 21.1°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.4 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: HSL450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(7, 7, 7); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Face-Held - 2.5 cm Spacing from Front of DUT to Planar Phantom - Mid Channel

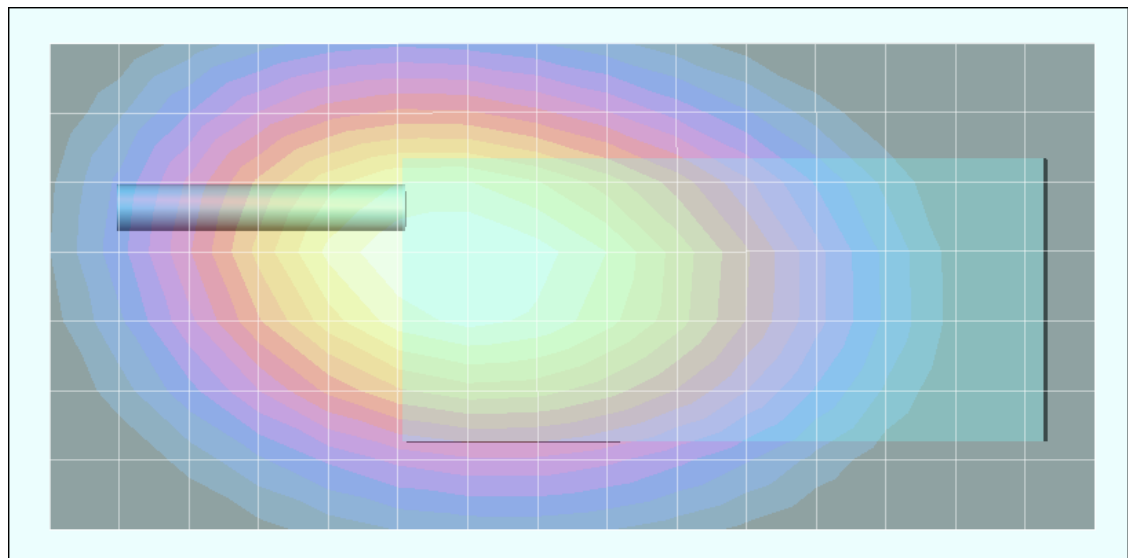
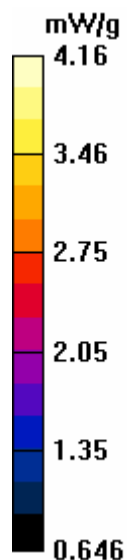
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 67.6 V/m; Power Drift = -0.0163 dB

Peak SAR (extrapolated) = 6.07 W/kg

SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.9 mW/g

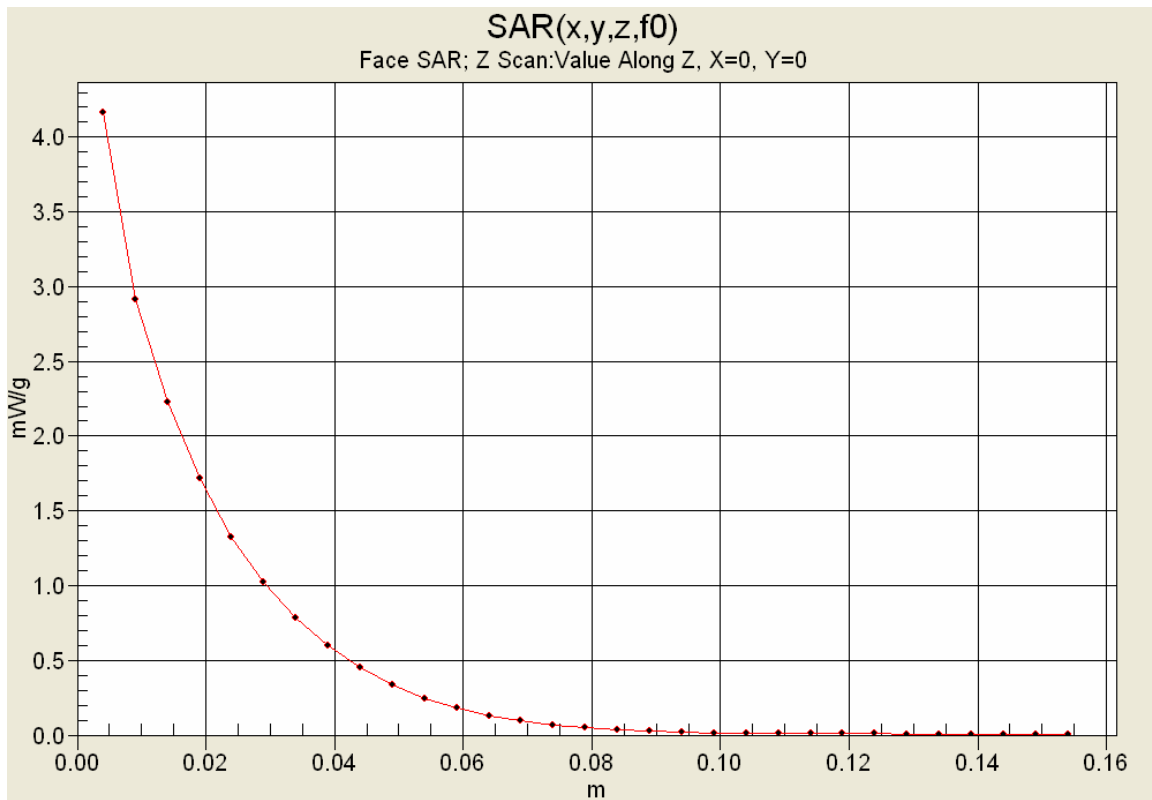
Maximum value of SAR (measured) = 4.16 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<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	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - NiCd NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, non-IS (P/N: BT-023406-001)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.75 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

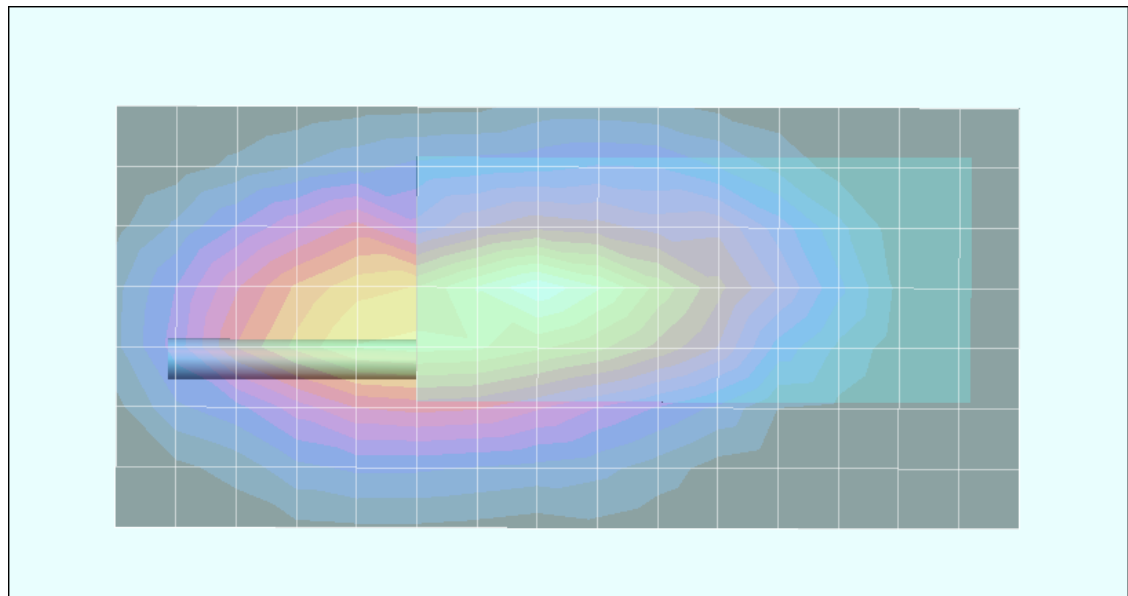
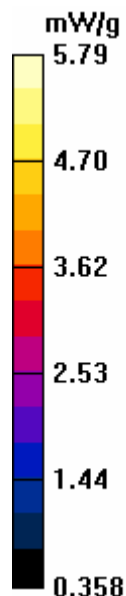
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.7 V/m; Power Drift = -0.0716 dB

Peak SAR (extrapolated) = 12.0 W/kg

SAR(1 g) = 5.44 mW/g; SAR(10 g) = 3.68 mW/g

Maximum value of SAR (measured) = 5.79 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiCd IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.92 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

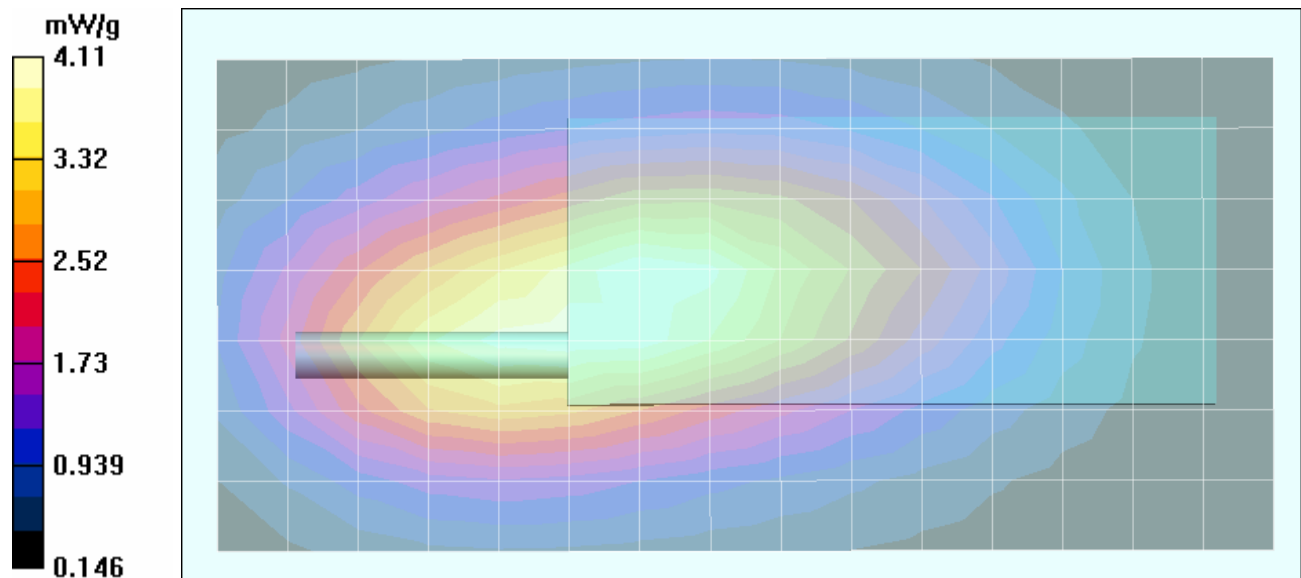
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.9 V/m; Power Drift = -0.651 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 4.18 mW/g; SAR(10 g) = 2.56 mW/g

Maximum value of SAR (measured) = 4.11 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.93 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

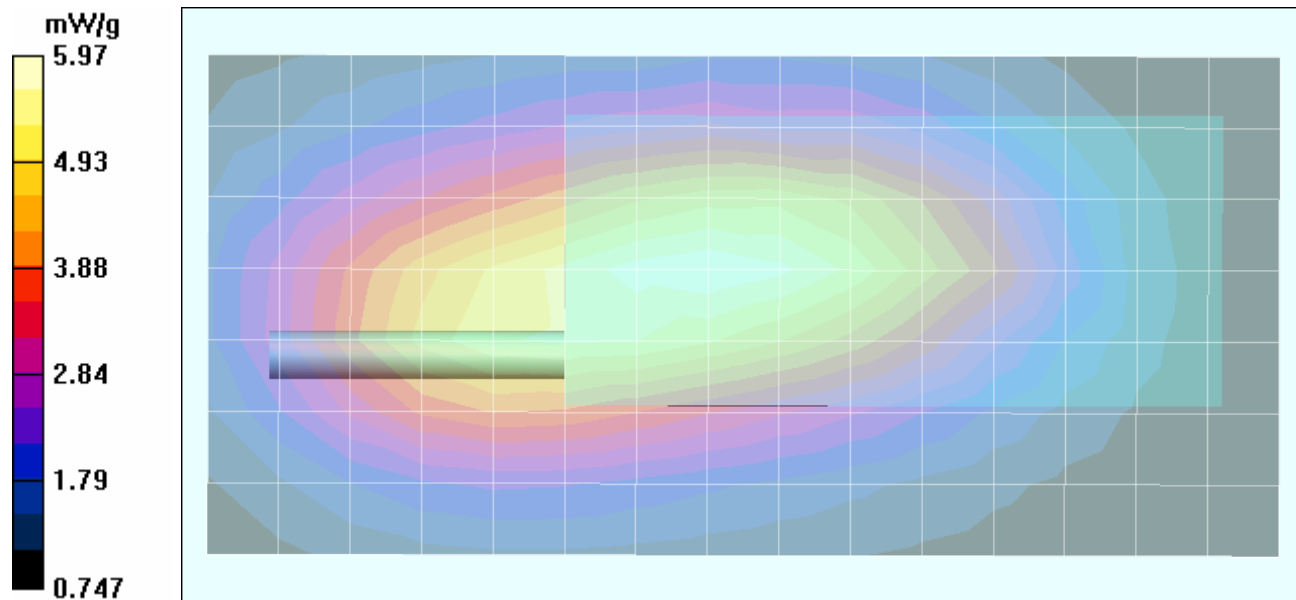
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.8 V/m; Power Drift = -0.0484 dB

Peak SAR (extrapolated) = 9.99 W/kg

SAR(1 g) = 5.74 mW/g; SAR(10 g) = 3.93 mW/g

Maximum value of SAR (measured) = 5.97 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

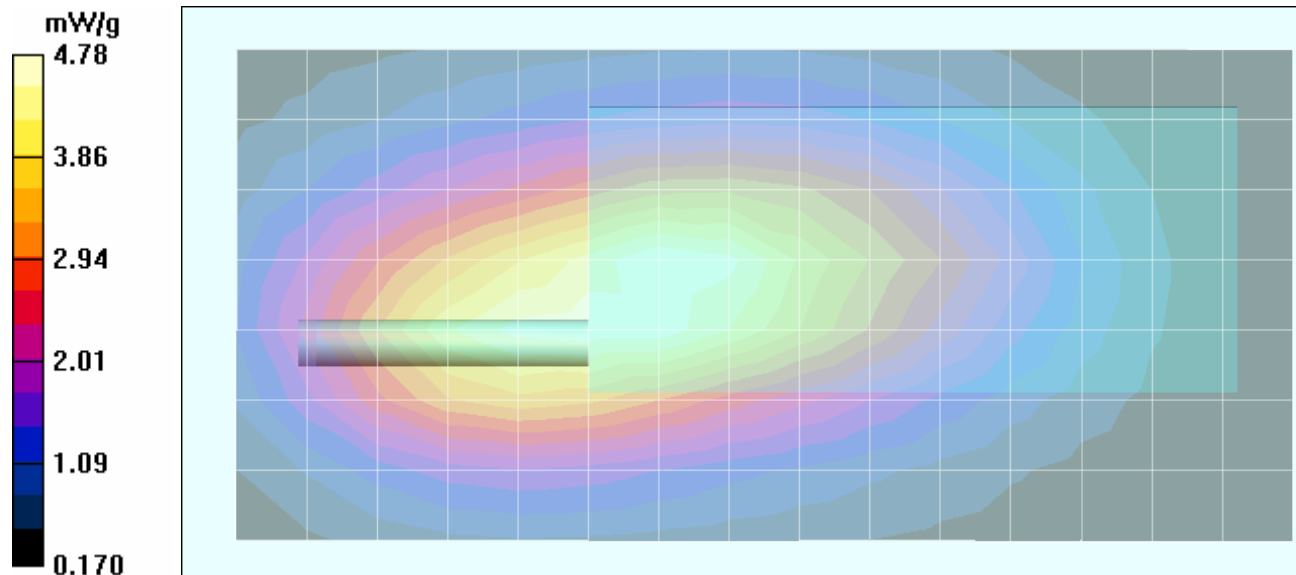
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 68.7 V/m; Power Drift = -0.524 dB

Peak SAR (extrapolated) = 21.7 W/kg

SAR(1 g) = 4.44 mW/g; SAR(10 g) = 2.91 mW/g

Maximum value of SAR (measured) = 4.78 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - Li-ion NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, non-IS (P/N: BT-023406-005)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

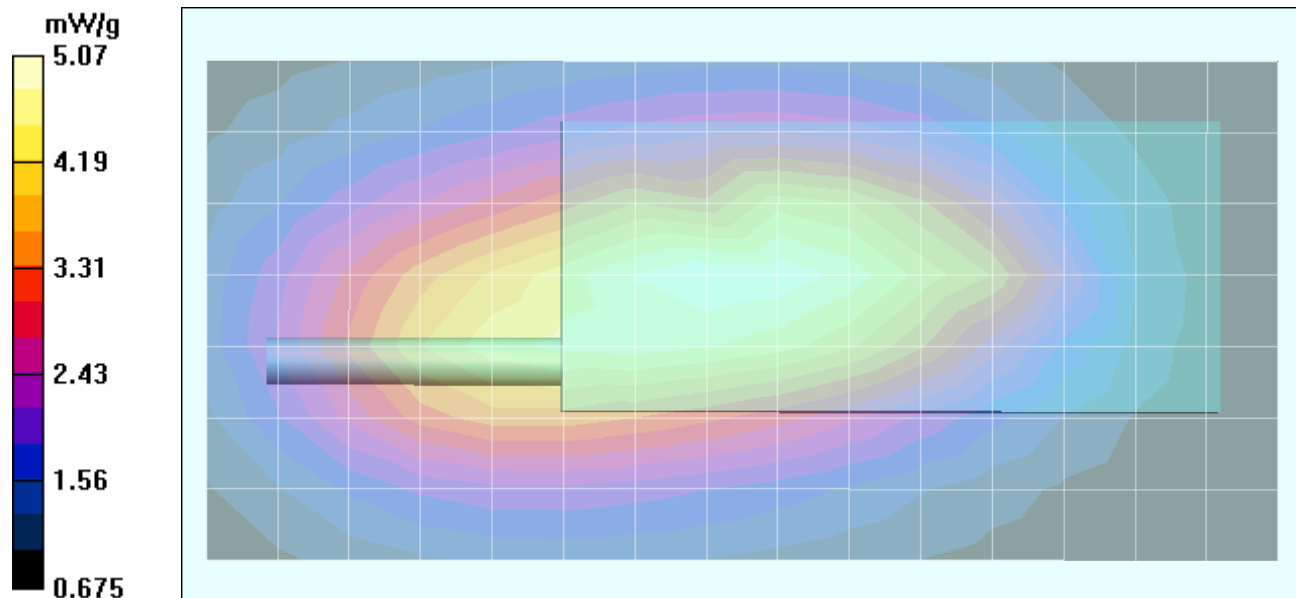
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 68.8 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 7.87 W/kg

SAR(1 g) = 4.84 mW/g; SAR(10 g) = 3.35 mW/g

Maximum value of SAR (measured) = 5.07 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - Li-ion IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, IS (P/N: BT-023406-006)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.79 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

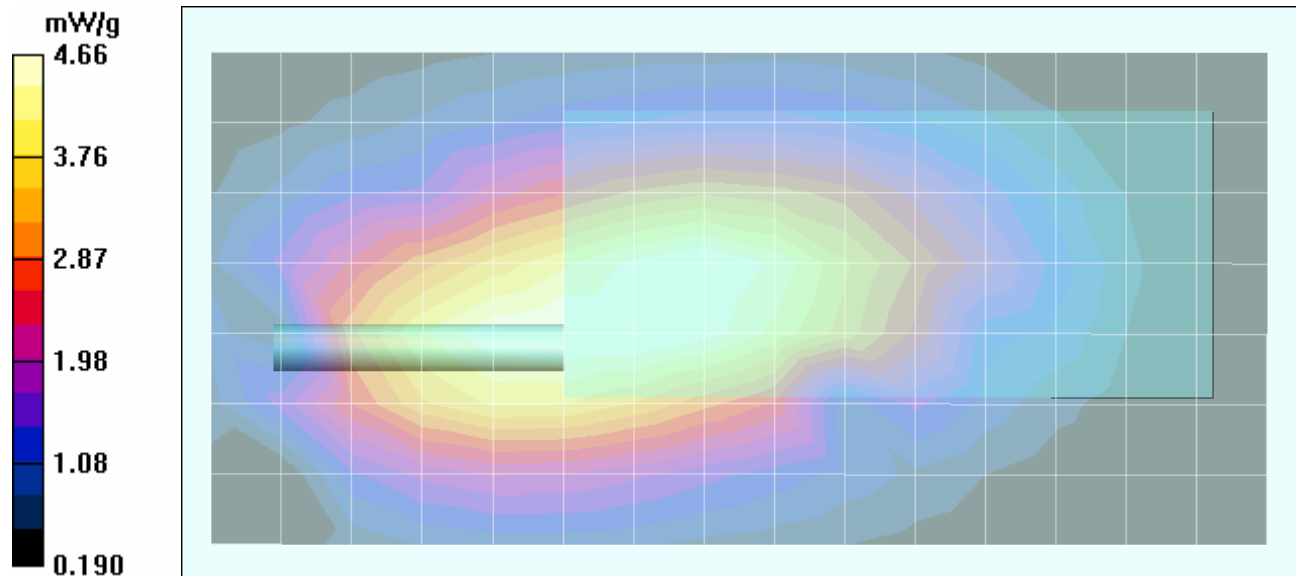
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.3 V/m; Power Drift = 0.571 dB

Peak SAR (extrapolated) = 7.85 W/kg

SAR(1 g) = 4.42 mW/g; SAR(10 g) = 2.94 mW/g

Maximum value of SAR (measured) = 4.66 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - NiCd NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, non-IS (P/N: BT-023406-001)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 7.29 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

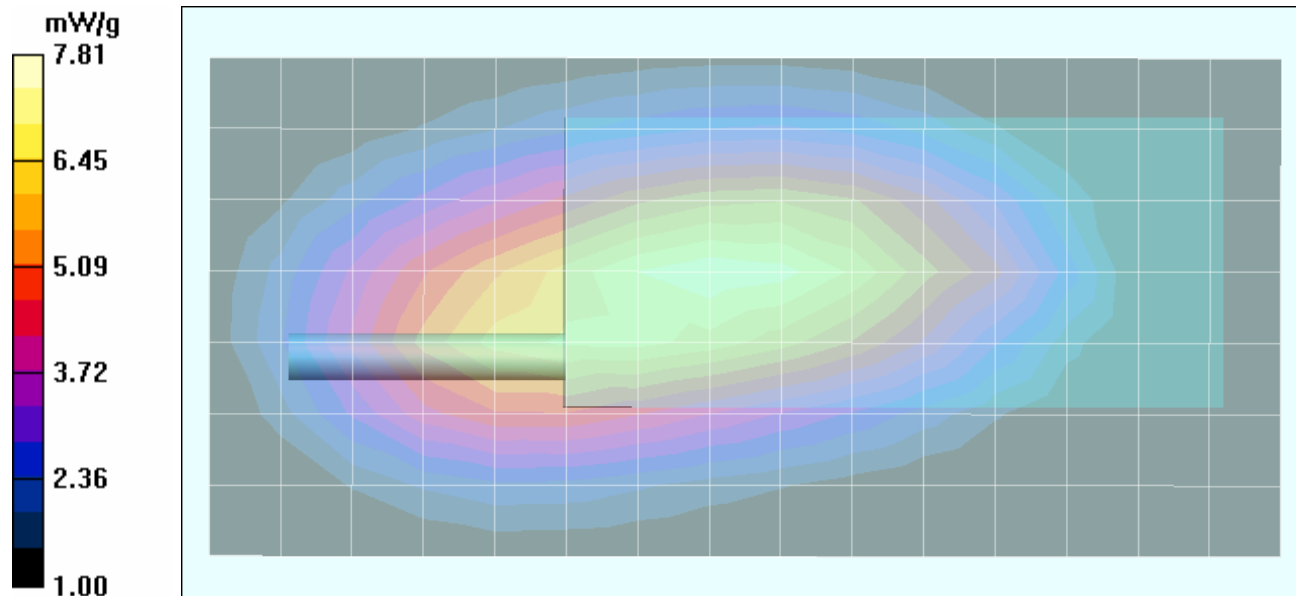
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 84.8 V/m; Power Drift = -0.0651 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 7.51 mW/g; SAR(10 g) = 5.17 mW/g

Maximum value of SAR (measured) = 7.81 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiCd IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 8.69 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

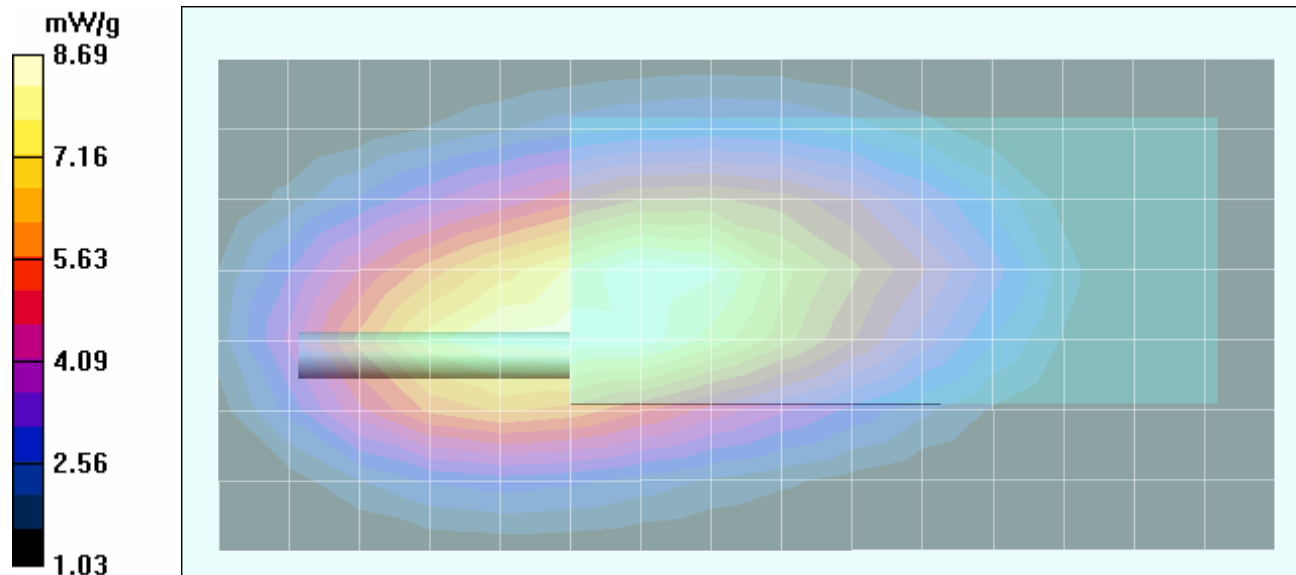
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 88.6 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 13.6 W/kg

SAR(1 g) = 8.28 mW/g; SAR(10 g) = 5.64 mW/g

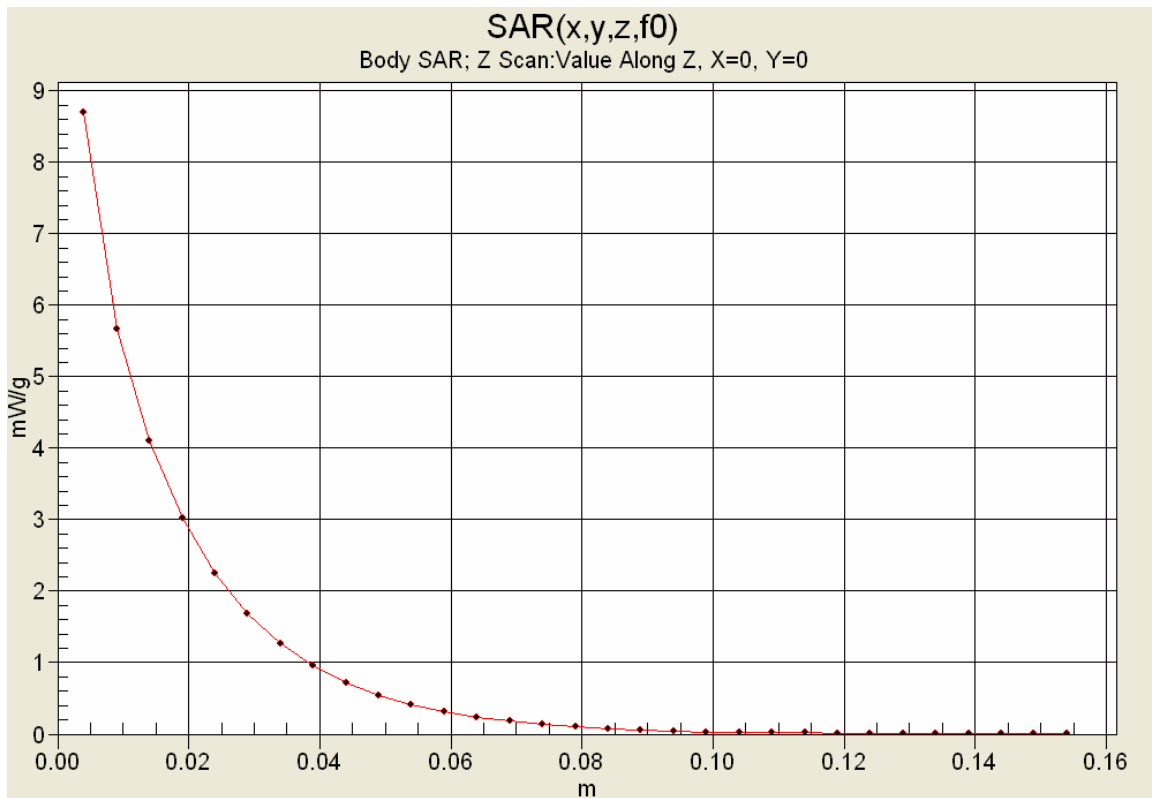
Maximum value of SAR (measured) = 8.69 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<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	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007

- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 7.07 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

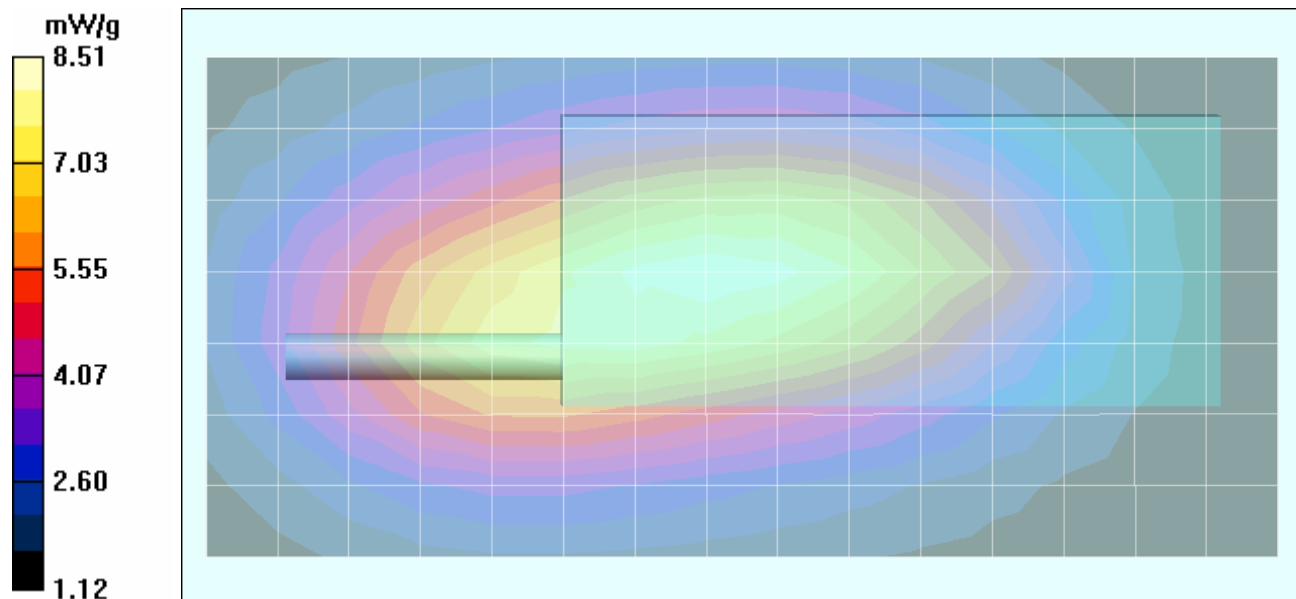
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 88.3 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 13.4 W/kg

SAR(1 g) = 8.20 mW/g; SAR(10 g) = 5.64 mW/g

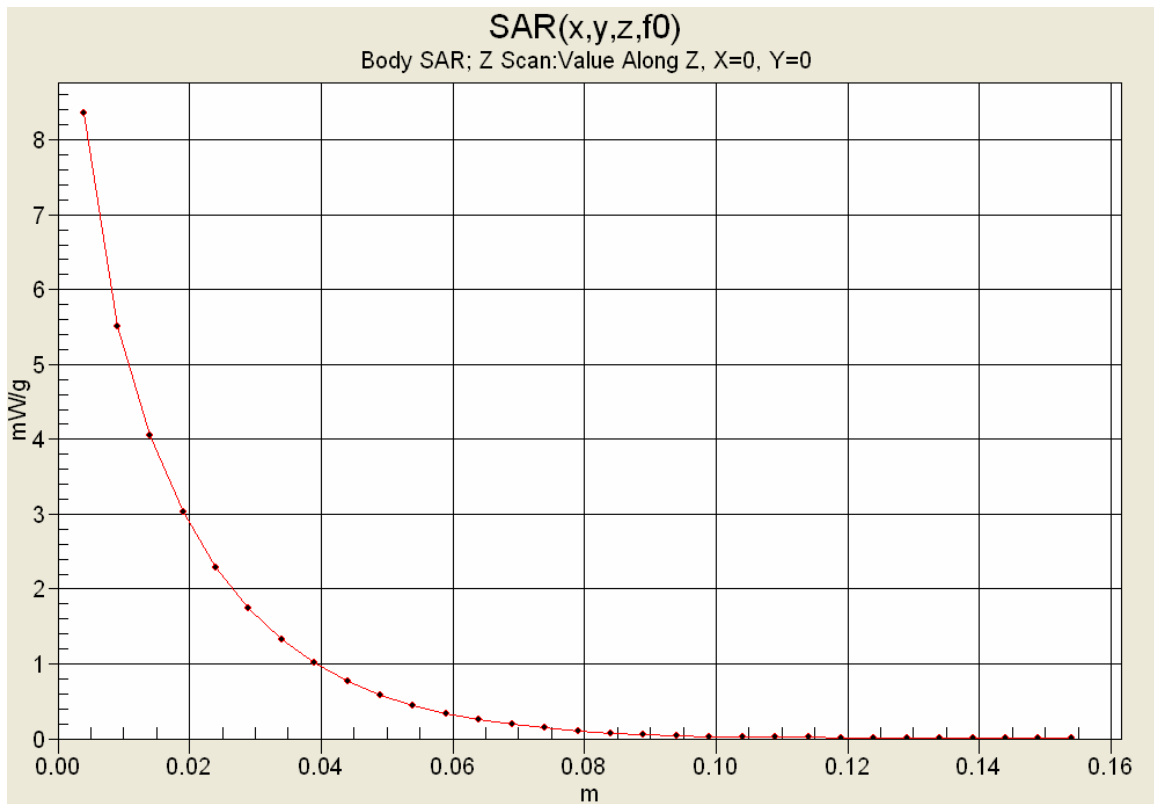
Maximum value of SAR (measured) = 8.51 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	  Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<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	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 8.46 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

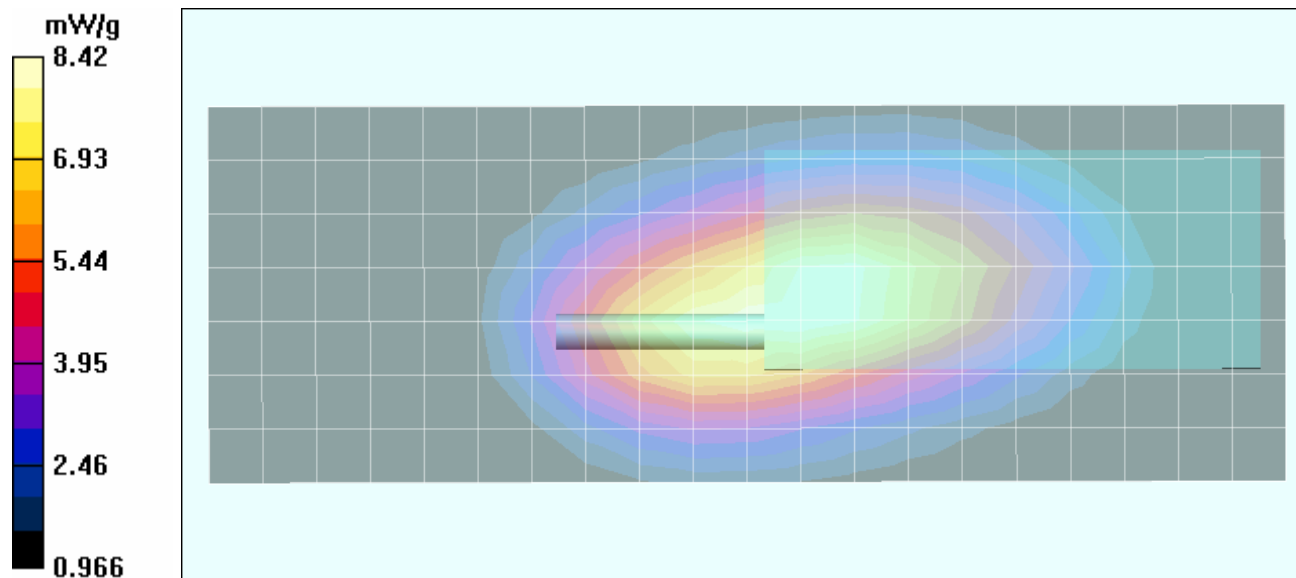
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 90.0 V/m; Power Drift = -0.201 dB

Peak SAR (extrapolated) = 13.3 W/kg

SAR(1 g) = 8.12 mW/g; SAR(10 g) = 5.55 mW/g

Maximum value of SAR (measured) = 8.42 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - Li-ion NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, non-IS (P/N: BT-023406-005)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); 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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.58 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

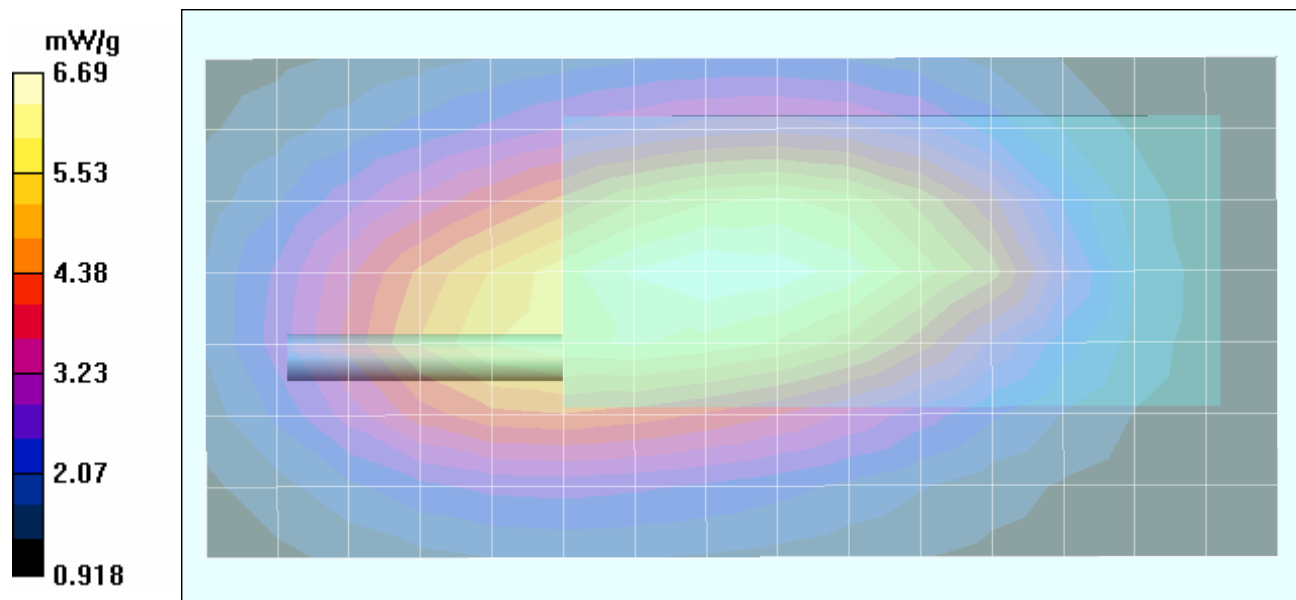
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 79.5 V/m; Power Drift = -0.0745 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 6.42 mW/g; SAR(10 g) = 4.47 mW/g

Maximum value of SAR (measured) = 6.69 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
				Certificate No. 2470.01

Date Tested: 08/08/2007

Body-Worn SAR - Li-ion IS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, IS (P/N: BT-023406-006)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 8.40 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

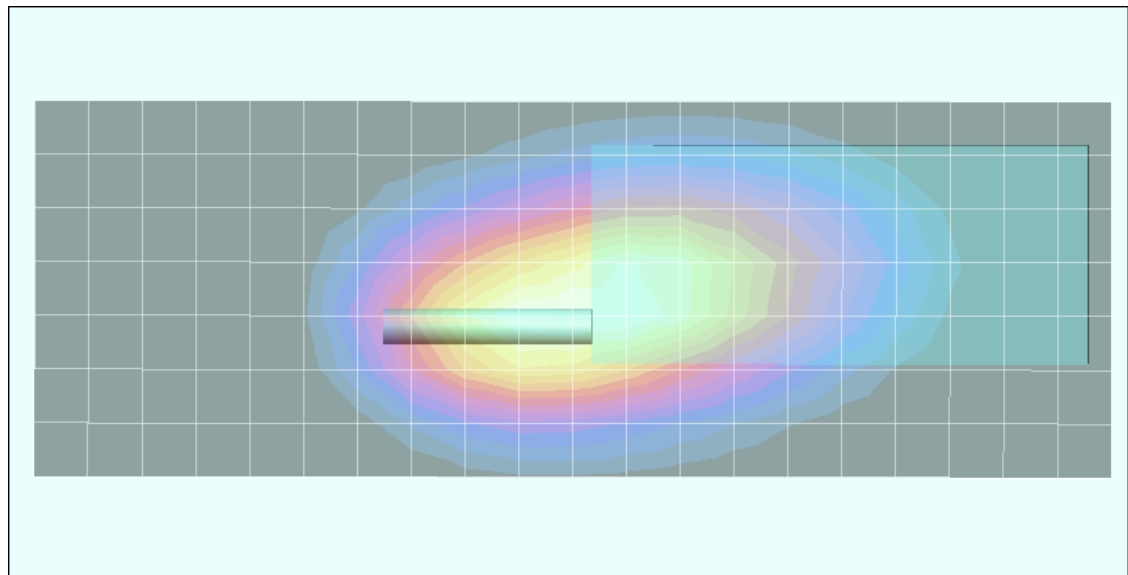
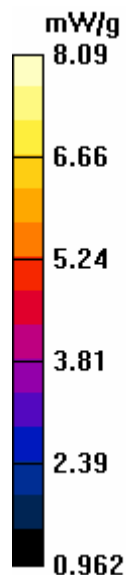
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 85.6 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 7.77 mW/g; SAR(10 g) = 5.33 mW/g

Maximum value of SAR (measured) = 8.09 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 500 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 22.2°C; Fluid Temp: 23.6°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 500 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 512 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - High Channel

Area Scan (8x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - High Channel

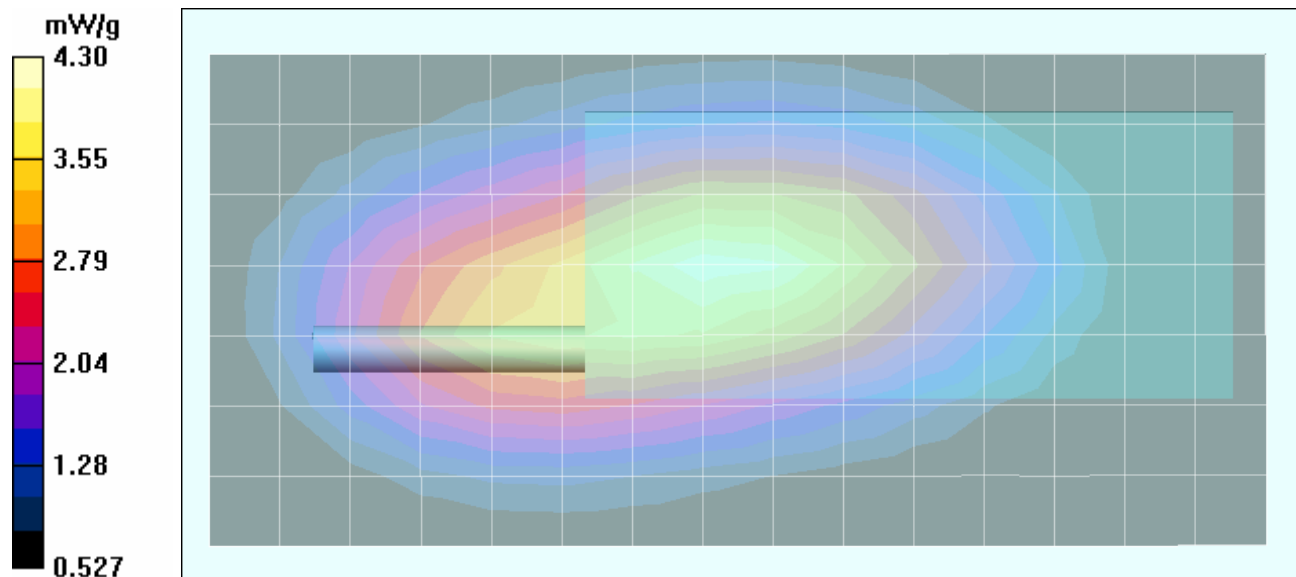
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 63.1 V/m; Power Drift = -0.216 dB

Peak SAR (extrapolated) = 6.75 W/kg

SAR(1 g) = 4.10 mW/g; SAR(10 g) = 2.78 mW/g

Maximum value of SAR (measured) = 4.30 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 ACCREDITED
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Certificate No. 2470.01				

Date Tested: 08/01/2007

Body-Worn SAR - NiCd NIS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, non-IS (P/N: BT-023406-001)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 7.25 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

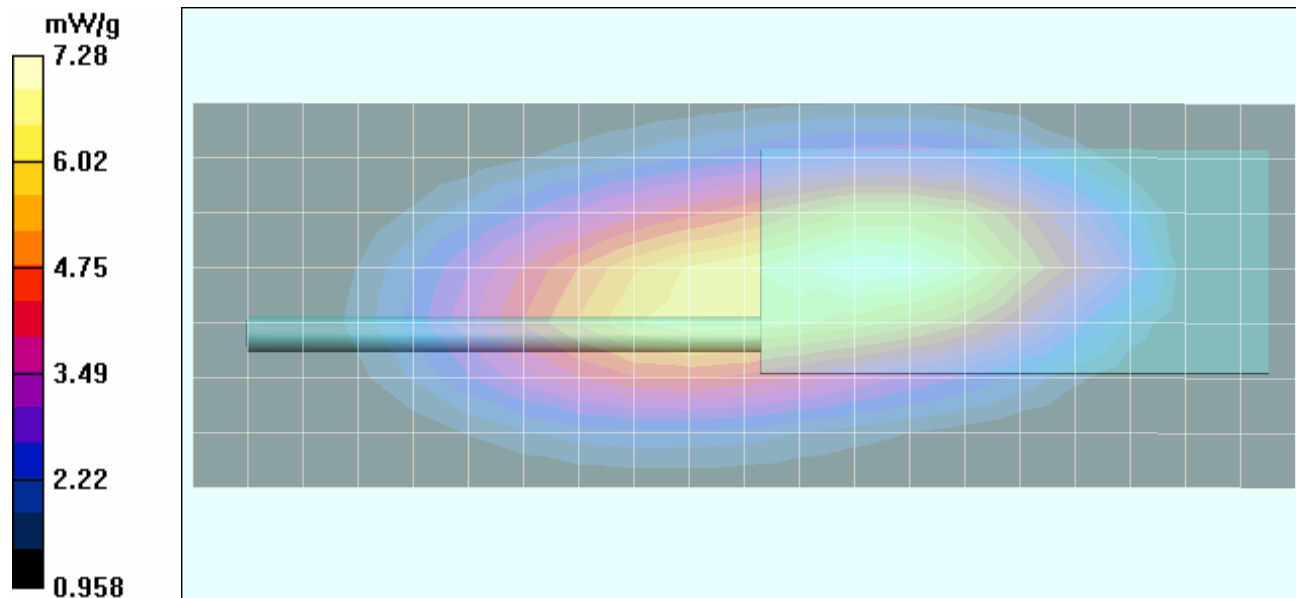
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 85.2 V/m; Power Drift = 0.0708 dB

Peak SAR (extrapolated) = 11.5 W/kg

SAR(1 g) = 6.96 mW/g; SAR(10 g) = 4.76 mW/g

Maximum value of SAR (measured) = 7.28 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
				Certificate No. 2470.01

Date Tested: 08/08/2007

Body-Worn SAR - NiCd IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 8.12 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

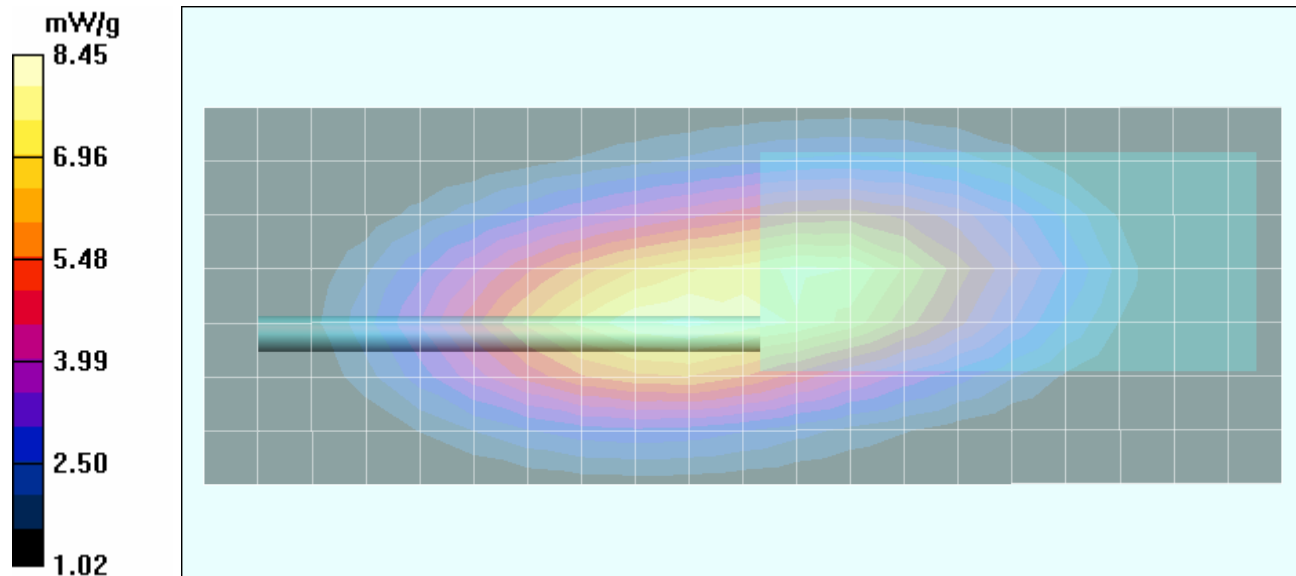
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 90.2 V/m; Power Drift = -0.0921 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 8.06 mW/g; SAR(10 g) = 5.58 mW/g

Maximum value of SAR (measured) = 8.45 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
				Certificate No. 2470.01

Date Tested: 08/01/2007

Body-Worn SAR - NiMH NIS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 7.09 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

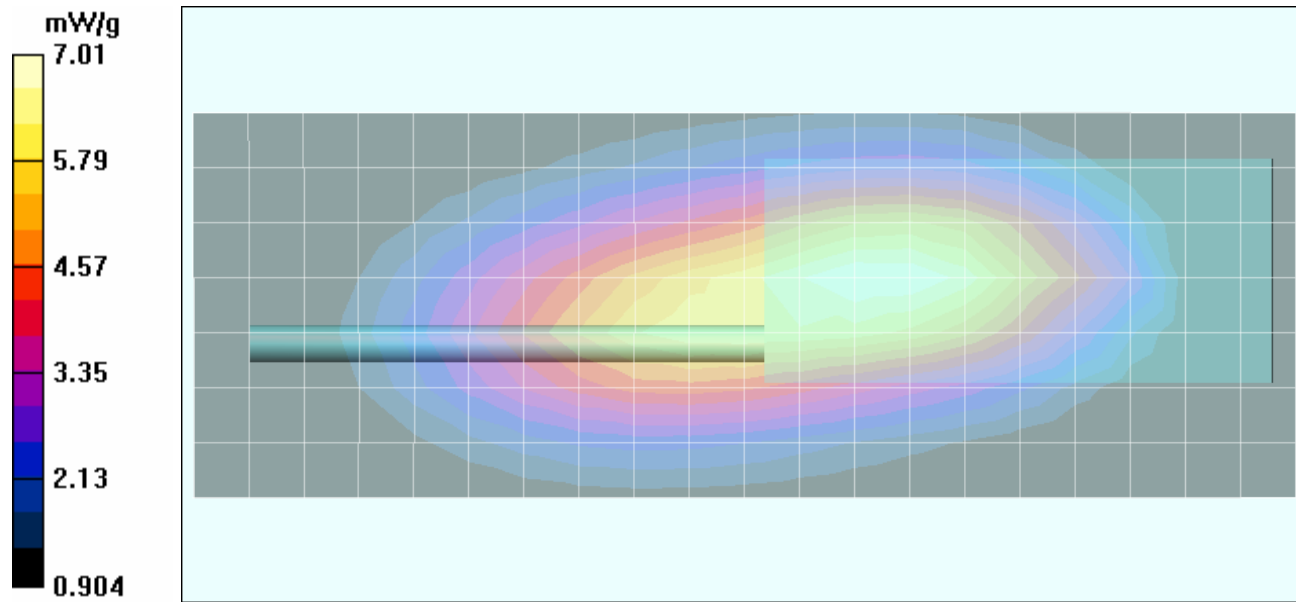
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 82.5 V/m; Power Drift = -0.0134 dB

Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 6.72 mW/g; SAR(10 g) = 4.62 mW/g

Maximum value of SAR (measured) = 7.01 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, IS (P/N: BT-023406-004)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 7.93 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

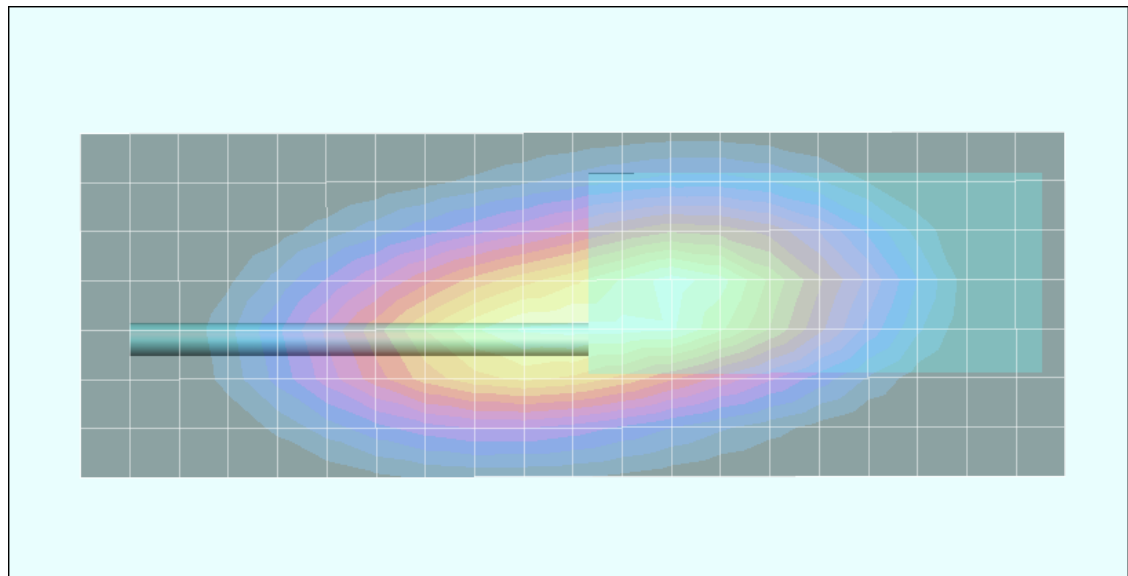
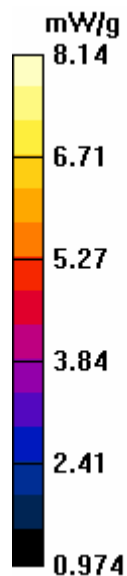
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 86.1 V/m; Power Drift = -0.0573 dB

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 7.81 mW/g; SAR(10 g) = 5.33 mW/g

Maximum value of SAR (measured) = 8.14 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - Li-ion NIS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, non-IS (P/N: BT-023406-005)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 6.52 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

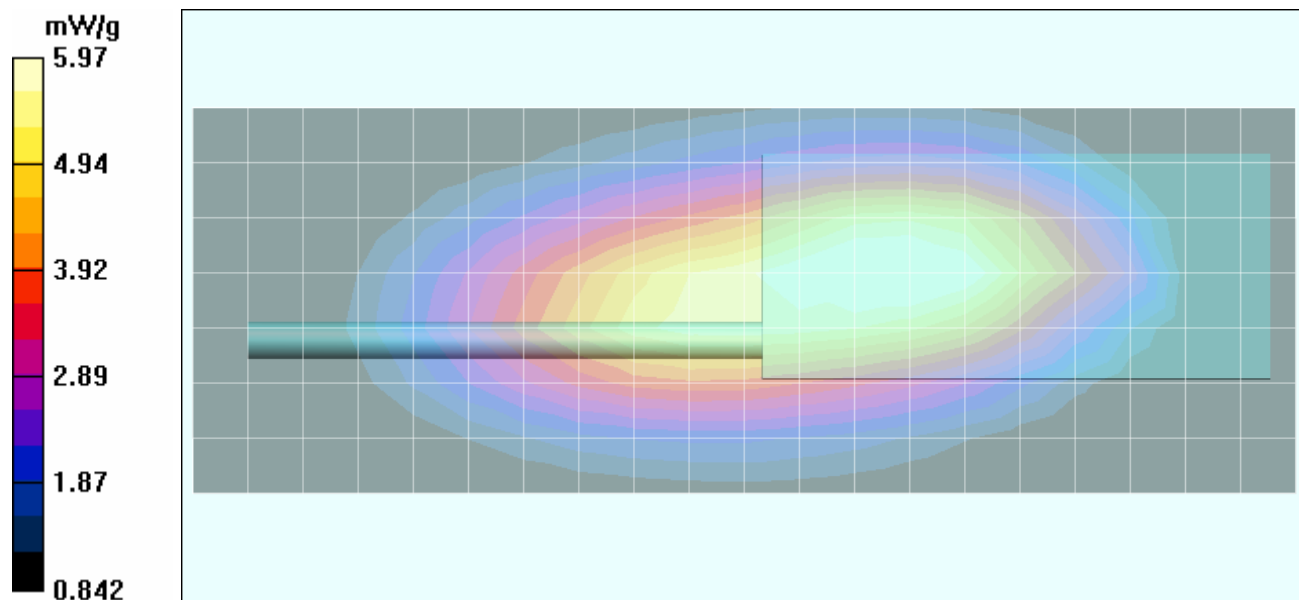
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 77.2 V/m; Power Drift = 0.0409 dB

Peak SAR (extrapolated) = 9.07 W/kg

SAR(1 g) = 5.74 mW/g; SAR(10 g) = 4.02 mW/g

Maximum value of SAR (measured) = 5.97 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/01/2007

Body-Worn SAR - Li-ion IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 25.7°C; Fluid Temp: 23.9°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

Li-ion Battery, immersible, IS (P/N: BT-023406-006)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Maximum value of SAR (measured) = 6.79 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

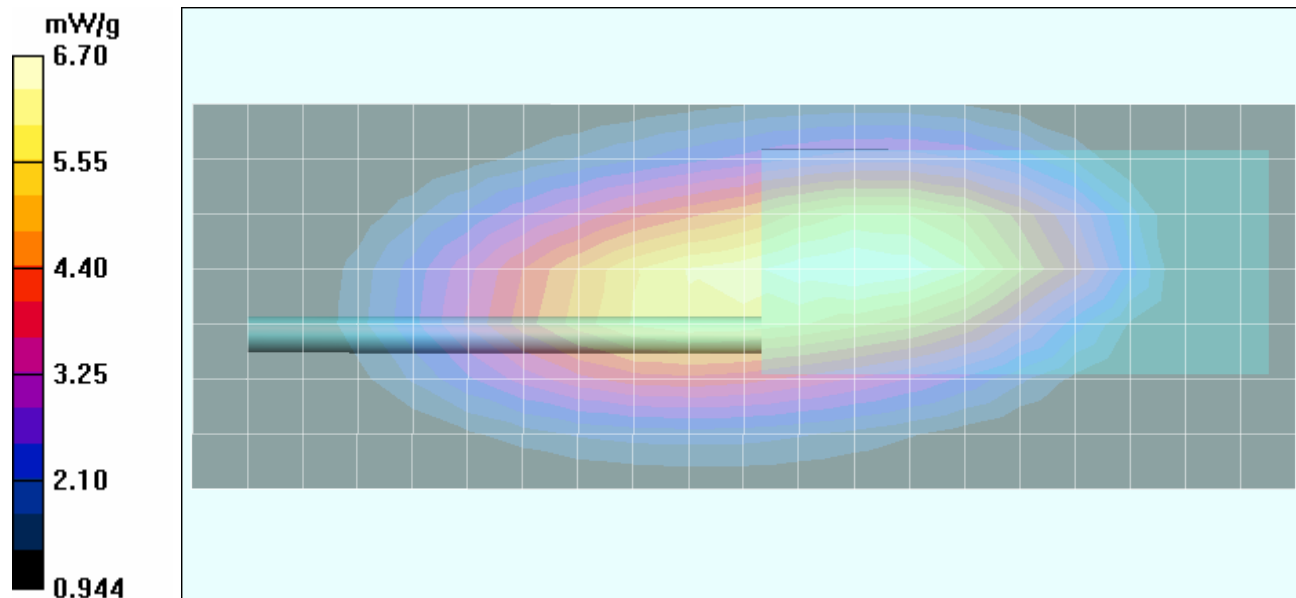
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 83.0 V/m; Power Drift = -0.0154 dB

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 6.42 mW/g; SAR(10 g) = 4.48 mW/g

Maximum value of SAR (measured) = 6.70 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Body-Worn SAR - NiCd IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 440 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 22.2°C; Fluid Temp: 23.6°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 440 MHz; Duty Cycle: 1:1

RF Output Power: 4.4 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: M450 Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Low Channel

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

Maximum value of SAR (measured) = 8.64 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Low Channel

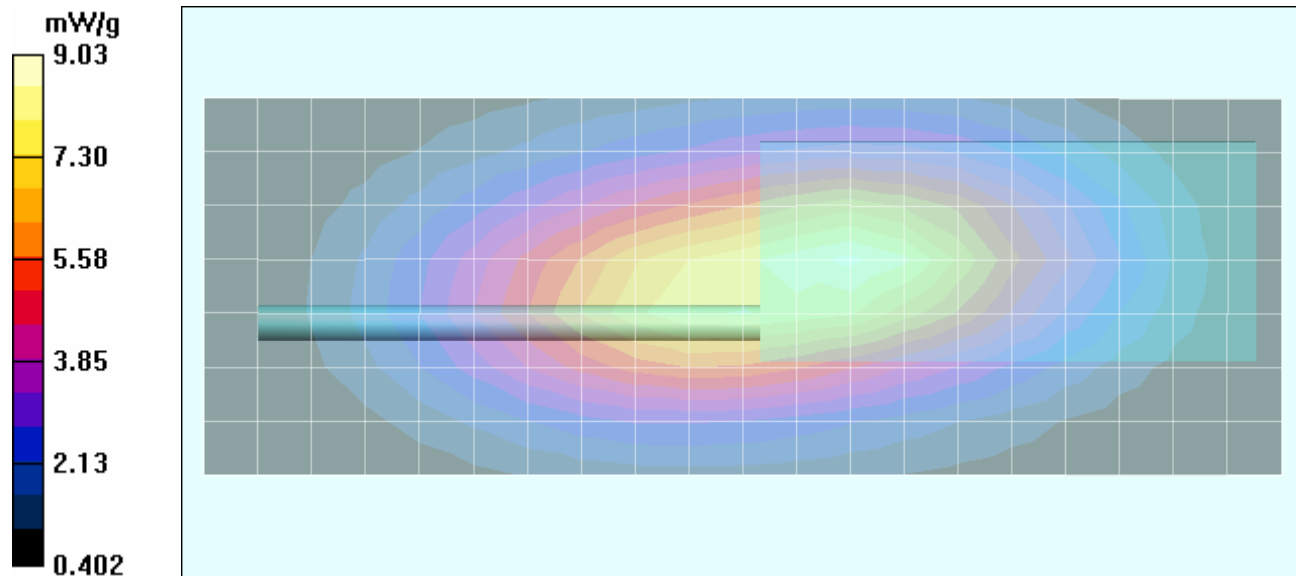
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 97.0 V/m; Power Drift = -0.392 dB

Peak SAR (extrapolated) = 14.6 W/kg

SAR(1 g) = 8.80 mW/g; SAR(10 g) = 5.91 mW/g

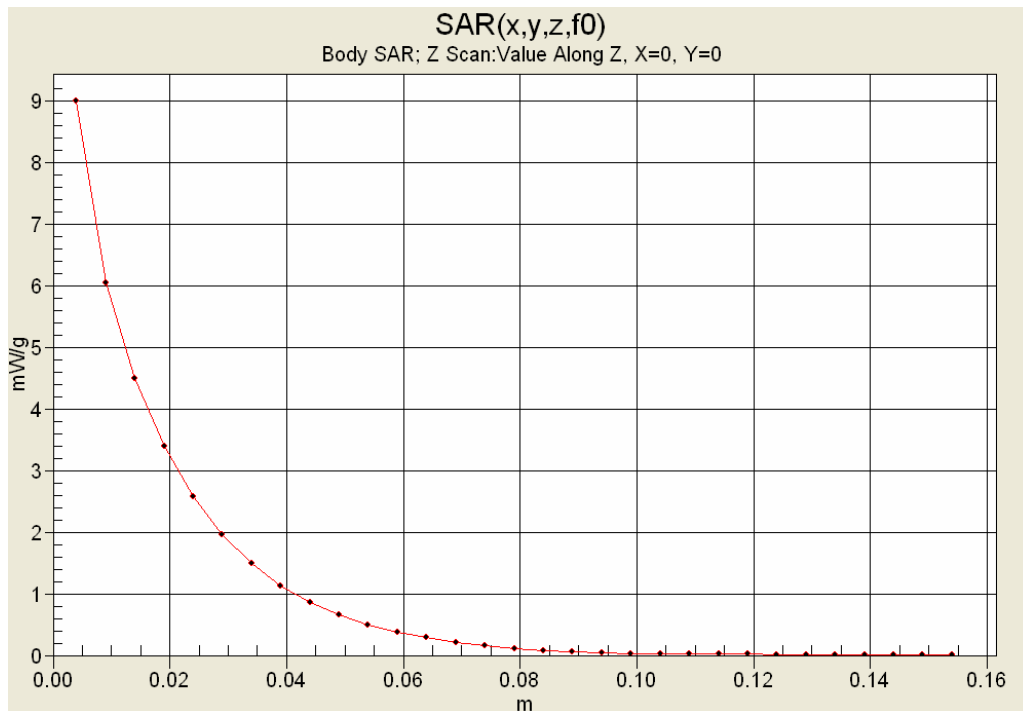
Maximum value of SAR (measured) = 9.03 mW/g



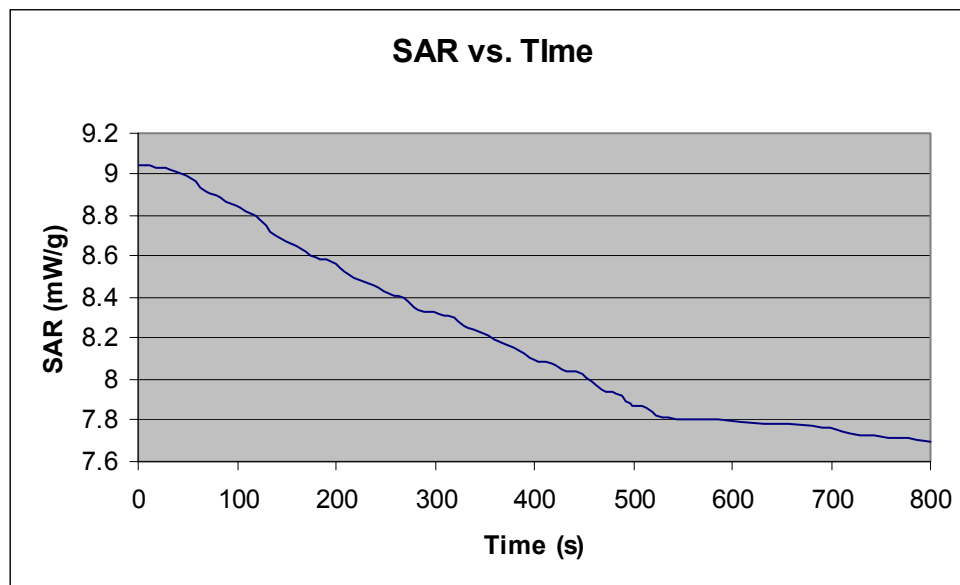
Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	Date(s) of Evaluation Jul 31, Aug 1-2, 8-10, 2007	Test Report Serial No. 073107OWD-T845-S90U	Test Report Revision No. Revision 1.0	 Certificate No. 2470.01
	Test Report Issue Date August 29, 2007	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

Z-Axis Scan



SAR-versus-Time Power Droop



Max SAR: 9.04324 mW/g
Low SAR: 7.69443 mW/g (-0.701 dB)
SAR after 340s: 8.24307 mW/g (-0.402 dB)
 (340s = Zoom Scan Duration)
 (800s = Area Scan Duration)

Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
				Certificate No. 2470.01

Date Tested: 08/09/2007

Body-Worn SAR - NiCd IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 440 MHz

DUT: M/A-COM Model: P5400 (System Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-003

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 22.2°C; Fluid Temp: 23.6°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 440 MHz; Duty Cycle: 1:1

RF Output Power: 4.4 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: M450 Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007

- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Low Channel

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

Maximum value of SAR (measured) = 8.74 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - Low Channel

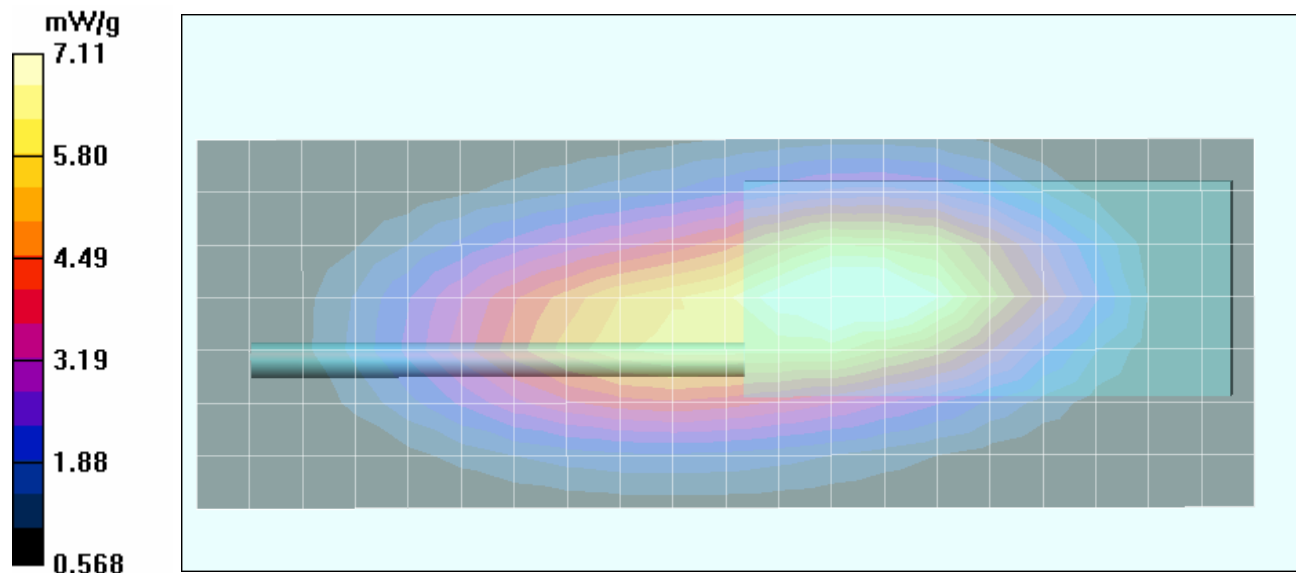
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 85.8 V/m; Power Drift = -0.392 dB

Peak SAR (extrapolated) = 23.3 W/kg

SAR(1 g) = 7.16 mW/g; SAR(10 g) = 4.88 mW/g

Maximum value of SAR (measured) = 7.11 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Body-Worn SAR - NiCd IS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 500 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Metal Belt-Clip (P/N: CC23894); Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 22.2°C; Fluid Temp: 23.6°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 500 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiCd Battery, immersible, IS (P/N: BT-023406-002)

Medium: M450 Medium parameters used: $f = 512 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - High Channel

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

Maximum value of SAR (measured) = 7.89 mW/g

Body-Worn - 1.1 cm Belt-Clip Spacing from Back of DUT to Planar Phantom - High Channel

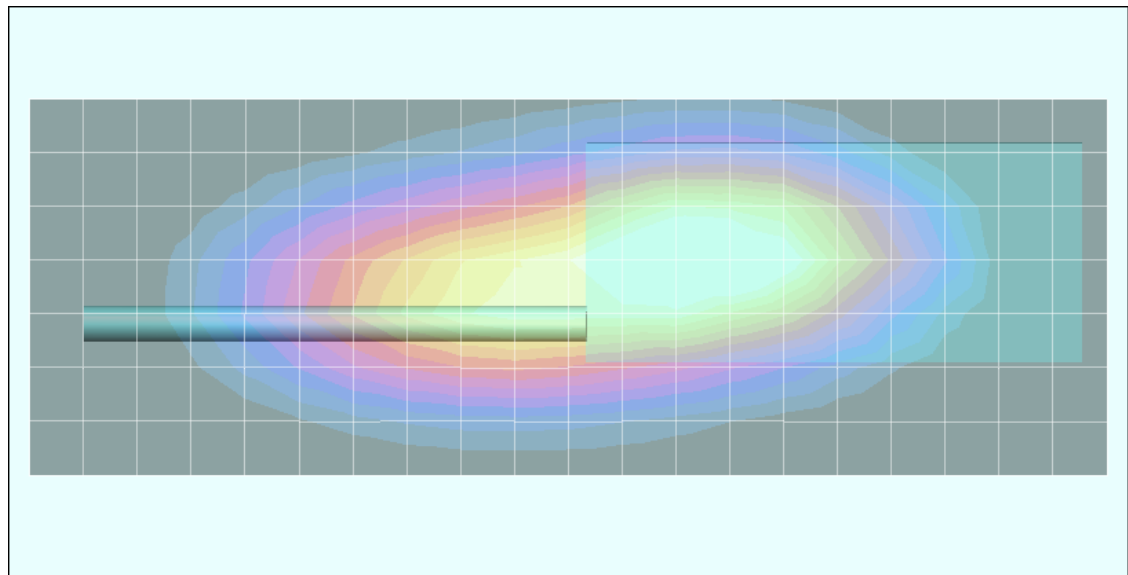
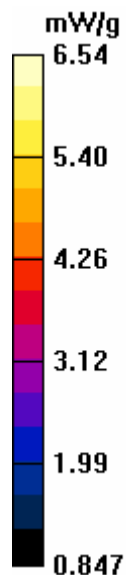
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 76.5 V/m; Power Drift = -0.0765 dB

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 6.23 mW/g; SAR(10 g) = 4.27 mW/g

Maximum value of SAR (measured) = 6.54 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
				Certificate No. 2470.01

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/12) - 476 MHz

DUT: M/A-COM Model: P5400; Type: Portable Radio w/ PTT Speaker-Microphone with Antenna; P/N: MC-023933-002

Body-Worn Accessory: Speaker-Microphone Lapel Clip; Audio Accessory: Earphone (P/N: LS103239V1)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.5 cm Speaker-Microphone Lapel Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.14 mW/g

Body-Worn - 1.5 cm Speaker-Microphone Lapel Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

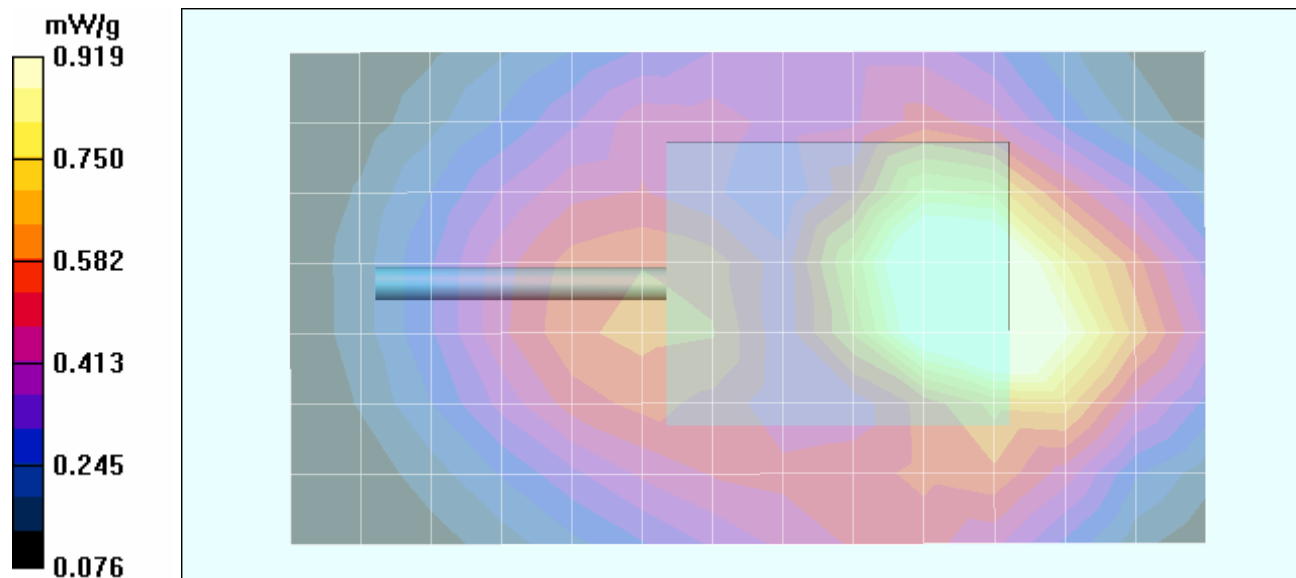
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.1 V/m; Power Drift = 0.0213 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.573 mW/g

Maximum value of SAR (measured) = 0.919 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400; Type: Portable Radio w/ PTT Speaker-Microphone with Antenna; P/N: MC-023933-002

Body-Worn Accessory: Speaker-Microphone Lapel Clip; Audio Accessory: Earphone (P/N: LS103239V1)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.5 cm Speaker-Microphone Lapel Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 1.5 cm Speaker-Microphone Lapel Clip Spacing from Back of DUT to Planar Phantom - Mid Channel

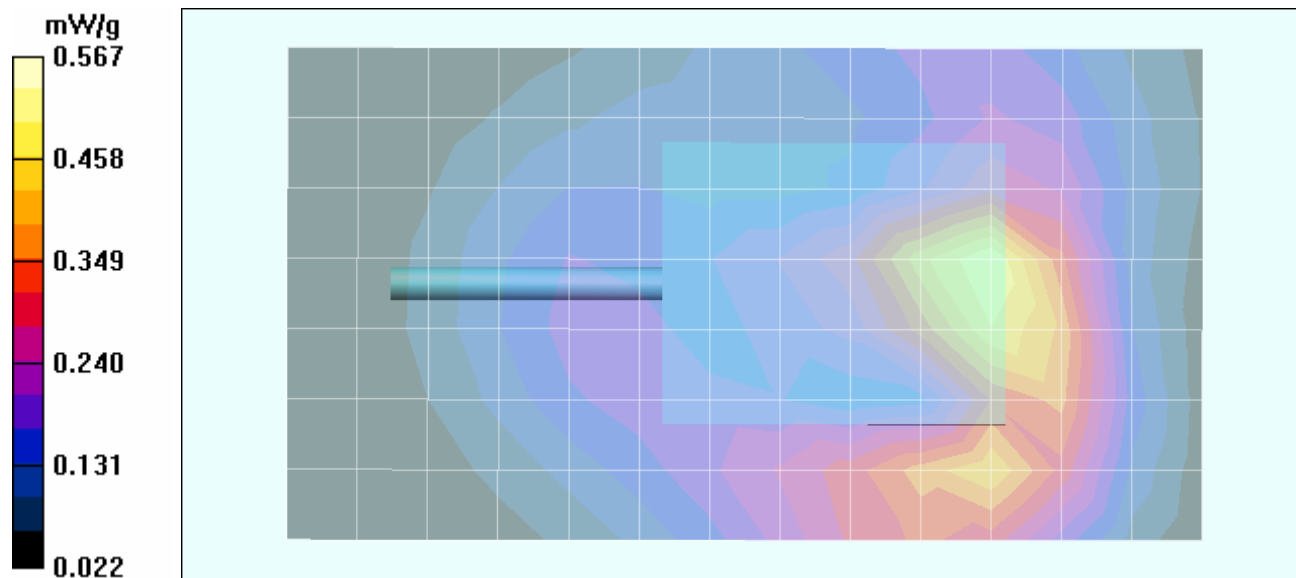
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.8 V/m; Power Drift = -0.0567 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.567 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/09/2007

Body-Worn SAR - NiMH NIS Battery - ¼-Wave Whip Antenna (P/N: KRE 101 1223/12) - 476 MHz

DUT: M/A-COM Model: P5400; Type: Portable Radio w/ PTT Speaker-Microphone with Antenna; P/N: MC-023933-002

Body-Worn Accessory: Speaker-Microphone Lapel Clip; Audio Accessory: Earphone (P/N: LS103239V1)

Ambient Temp: 22.2°C; Fluid Temp: 23.6°C; Barometric Pressure: 101.4 kPa; Humidity: 31%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 56.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 1.5 cm Speaker-Microphone Lapel Clip Spacing from Back of DUT to Planar Phantom - Mid Channel Area Scan (8x19x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.554 mW/g

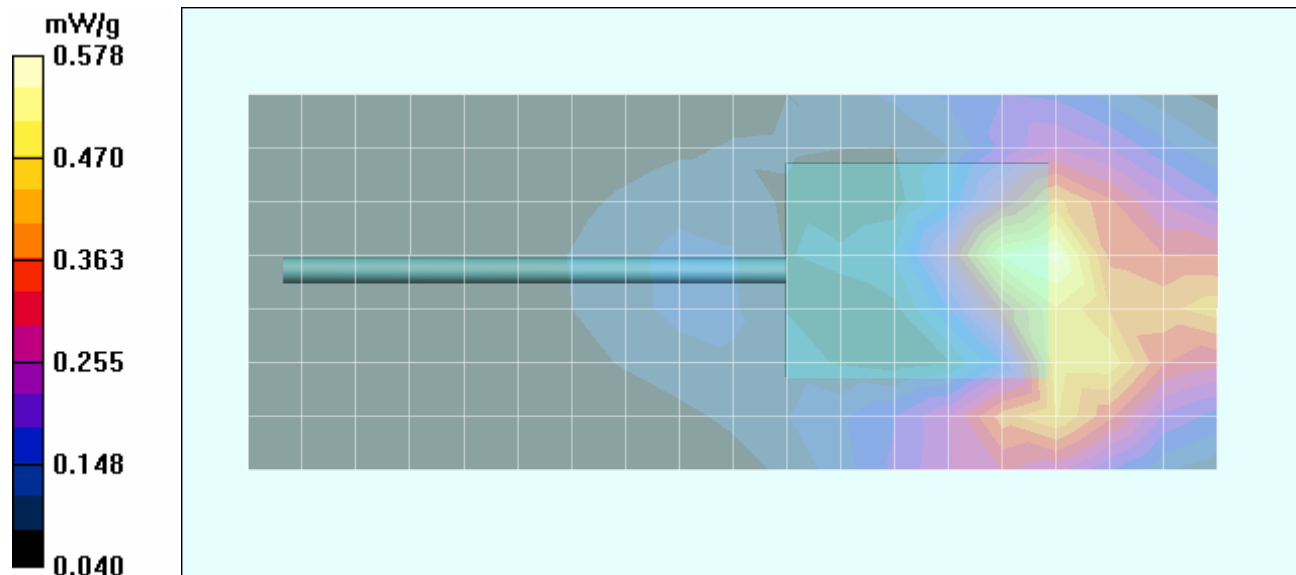
Body-Worn - 1.5 cm Speaker-Microphone Lapel Clip Spacing from Back of DUT to Planar Phantom - Mid Channel Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.96 V/m; Power Drift = -0.0304 dB

Peak SAR (extrapolated) = 0.940 W/kg

SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.578 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Leather Case Kit 1 (P/N: CC-023931-003)

Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 4.0 cm Leather Case & Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 4.0 cm Leather Case & Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

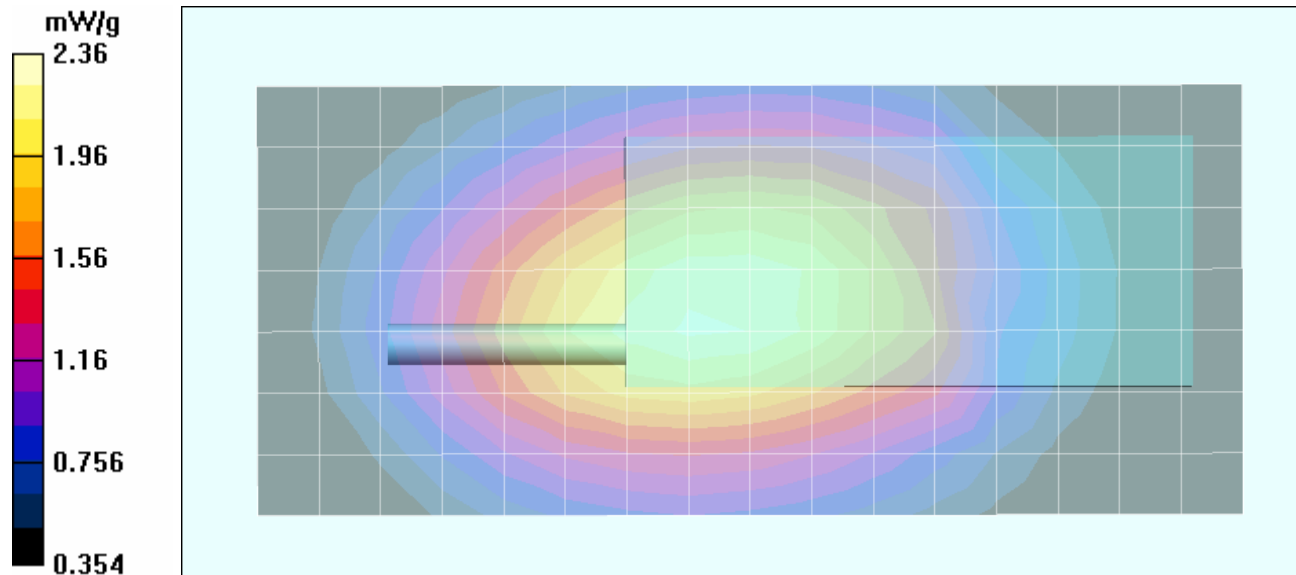
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.9 V/m; Power Drift = -0.216 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.65 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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 Testing and Engineering Services Ltd.	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Leather Case Kit 2 (P/N: CC-023931-004)

Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 4.0 cm Leather Case & Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 4.0 cm Leather Case & Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

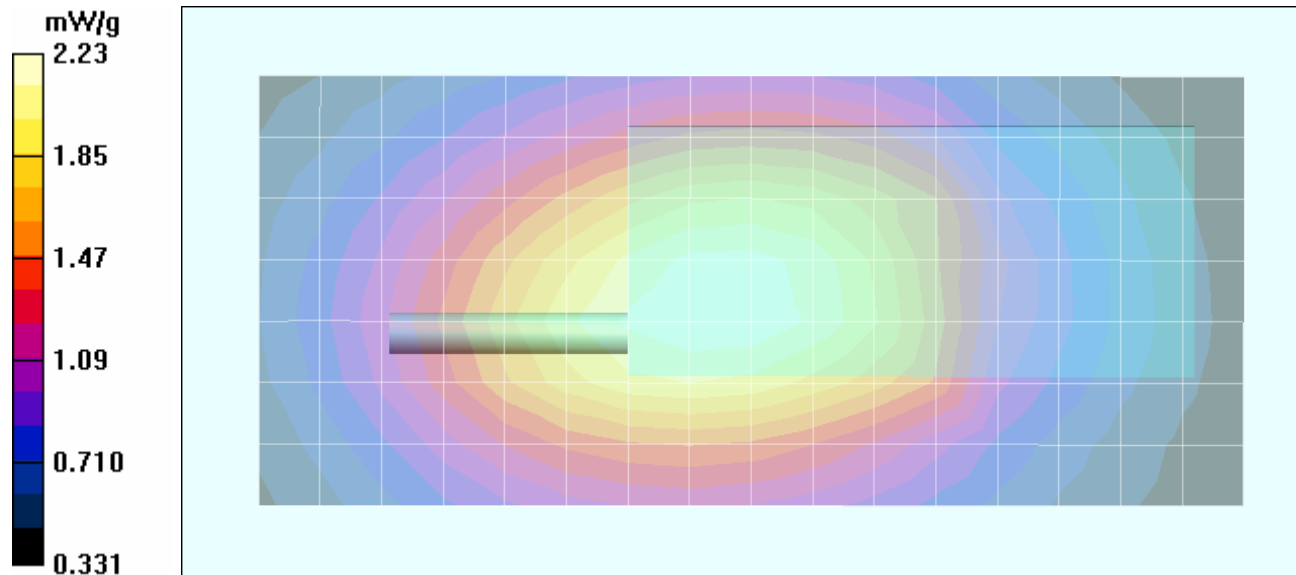
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.0 V/m; Power Drift = -0.0750 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 2.15 mW/g; SAR(10 g) = 1.57 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Leather Case (P/N: CC-023931-002) with Shoulder Strap (P/N: CC103333V1)

Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007

- Sensor-Surface: 4 mm (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 - 2.5 cm Leather Case Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 2.5 cm Leather Case Spacing from Back of DUT to Planar Phantom - Mid Channel

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

Reference Value = 71.9 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 8.05 W/kg

SAR(1 g) = 5.06 mW/g; SAR(10 g) = 3.6 mW/g

Maximum value of SAR (measured) = 5.28 mW/g

Body-Worn - 2.5 cm Leather Case Spacing from Back of DUT to Planar Phantom - Mid Channel

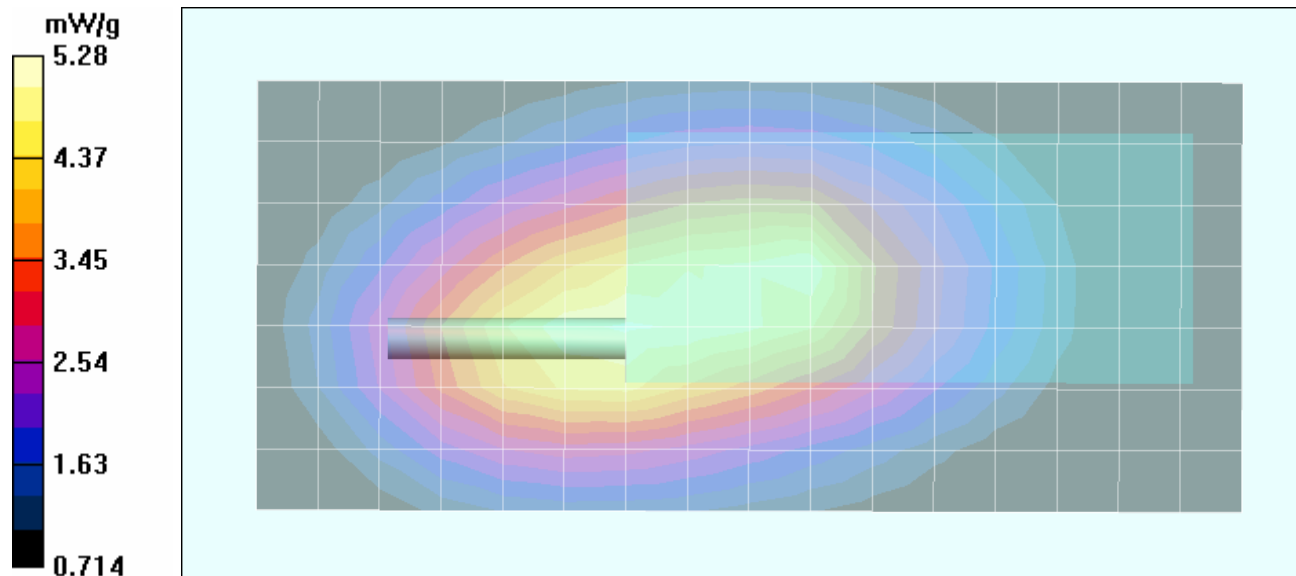
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 71.9 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 7.76 W/kg

SAR(1 g) = 5.08 mW/g; SAR(10 g) = 3.65 mW/g

Maximum value of SAR (measured) = 5.27 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessories: Belt Loop (P/N: KRY 101 1609/1) & Swivel Mount (P/N: KRY 101 1608/2)

Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 3.0 cm Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 3.0 cm Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

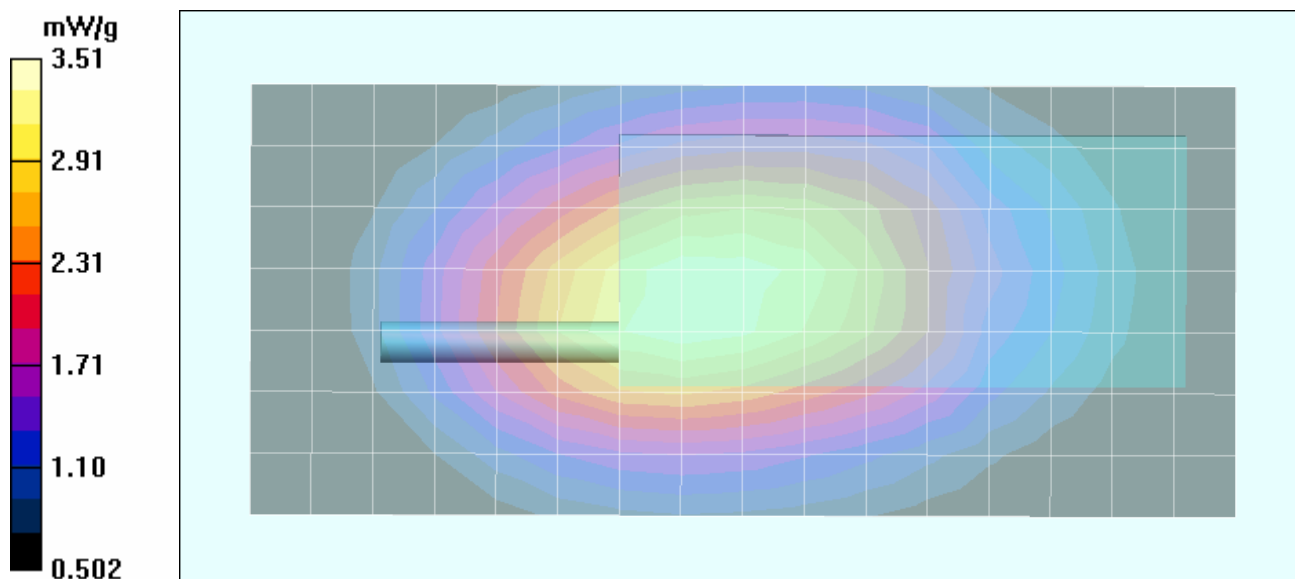
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.5 V/m; Power Drift = -0.0835 dB

Peak SAR (extrapolated) = 5.16 W/kg

SAR(1 g) = 3.38 mW/g; SAR(10 g) = 2.44 mW/g

Maximum value of SAR (measured) = 3.51 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessories: Nylon Case (P/N: CC-023932-001) & Belt Loop (P/N: KRY 101 1609/1)

Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 3.5 cm Nylon Case & Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Body-Worn - 3.5 cm Nylon Case & Belt Loop Spacing from Back of DUT to Planar Phantom - Mid Channel

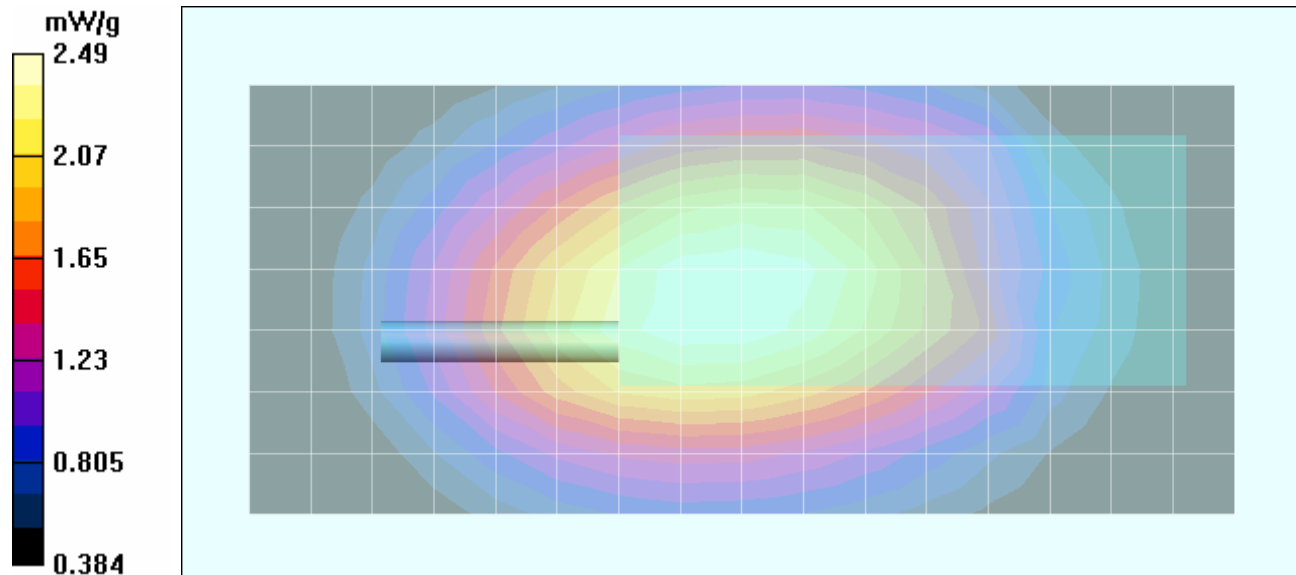
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.0 V/m; Power Drift = -0.0572 dB

Peak SAR (extrapolated) = 3.62 W/kg

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

Maximum value of SAR (measured) = 2.49 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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	<u>Date(s) of Evaluation</u> Jul 31, Aug 1-2, 8-10, 2007	<u>Test Report Serial No.</u> 073107OWD-T845-S90U	<u>Test Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 29, 2007	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 08/08/2007

Body-Worn SAR - NiMH NIS Battery - Helical Stub Antenna (P/N: KRE 101 1219/14) - 476 MHz

DUT: M/A-COM Model: P5400 (Scan Radio); Type: Portable UHF-H PTT Radio Transceiver; Serial: T1-UH-004

Body-Worn Accessory: Nylon "T"-Strap Holder (P/N: KRY 101 1656/1)

Audio Accessory: Speaker-Microphone (P/N: MC-023933-001)

Ambient Temp: 23.5°C; Fluid Temp: 24.0°C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 476 MHz; Duty Cycle: 1:1

RF Output Power: 4.3 Watts (Conducted)

NiMH Battery, immersible, non-IS (P/N: BT-023406-003)

Medium: M450 Medium parameters used: $f = 476 \text{ MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.9, 6.9, 6.9); Calibrated: 16/03/2007
- Sensor-Surface: 4 mm (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 - 2.0 cm Nylon "T"-Strap Holder Spacing from Back of DUT to Planar Phantom - Mid Channel

Area Scan (8x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.88 mW/g

Body-Worn - 2.0 cm Nylon "T"-Strap Holder Spacing from Back of DUT to Planar Phantom - Mid Channel

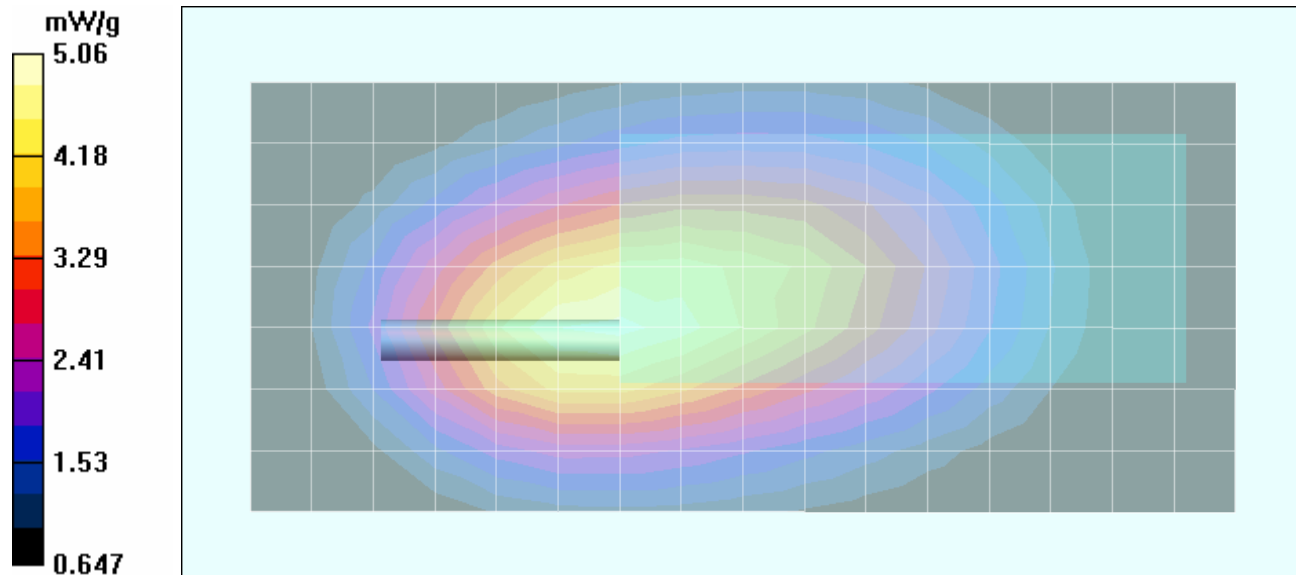
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 69.3 V/m; Power Drift = 0.00678 dB

Peak SAR (extrapolated) = 7.62 W/kg

SAR(1 g) = 4.86 mW/g; SAR(10 g) = 3.43 mW/g

Maximum value of SAR (measured) = 5.06 mW/g



Company:	M/A-COM, Inc.	Model:	P5400	FCC ID:	OWDTR-0046-E	IC ID:	3636B-0046	
DUT Type:	Portable Analog/Digital UHF-H PTT Radio Transceiver				Frequency Range:		440 - 512 MHz	
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