

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

APPENDIX A - SAR MEASUREMENT DATA

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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiCd NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 4.88 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

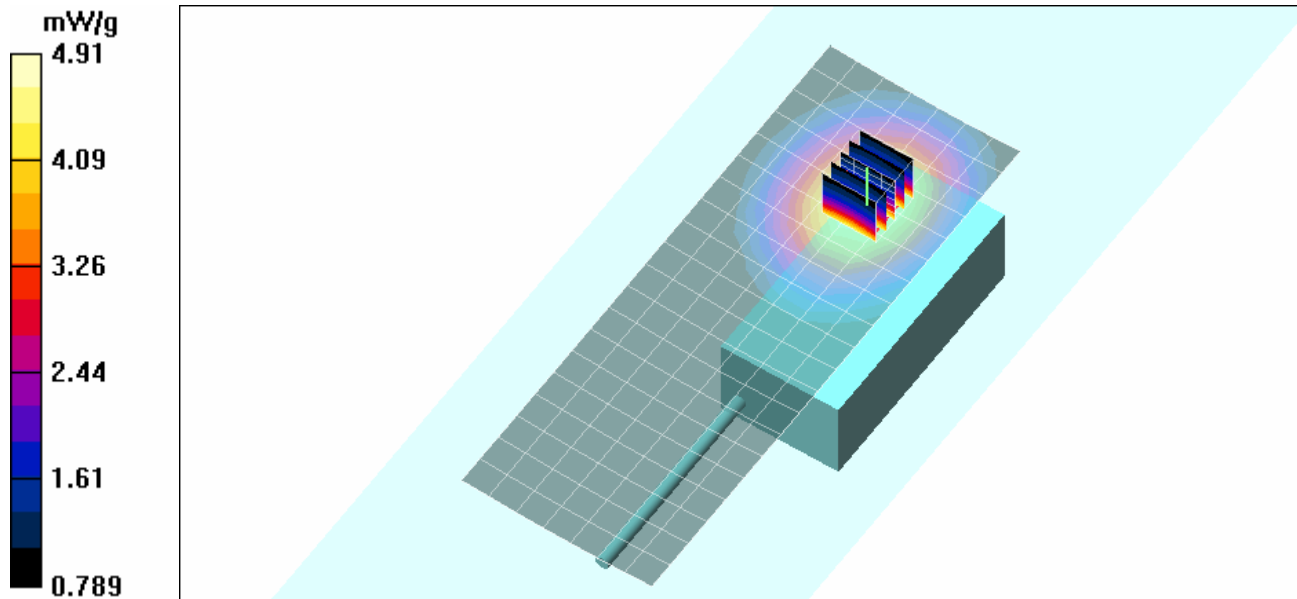
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.4 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 6.03 W/kg

SAR(1 g) = 4.65 mW/g; SAR(10 g) = 3.45 mW/g

Maximum value of SAR (measured) = 4.91 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiCd IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

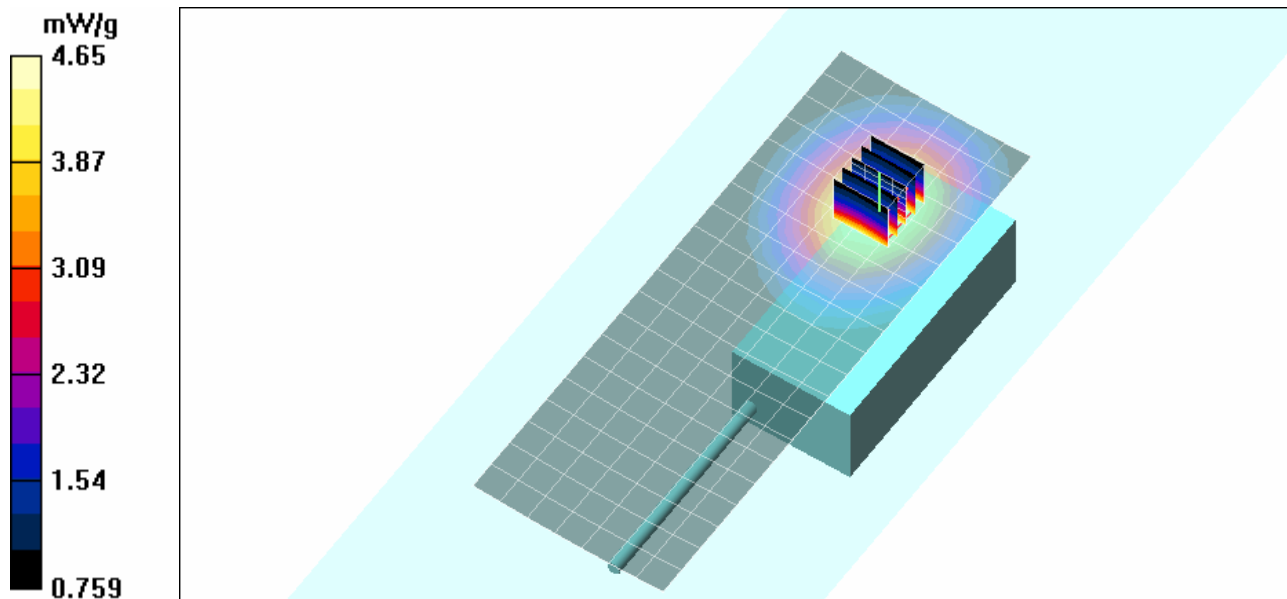
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.8 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 5.69 W/kg

SAR(1 g) = 4.39 mW/g; SAR(10 g) = 3.25 mW/g

Maximum value of SAR (measured) = 4.65 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiMH NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 5.13 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

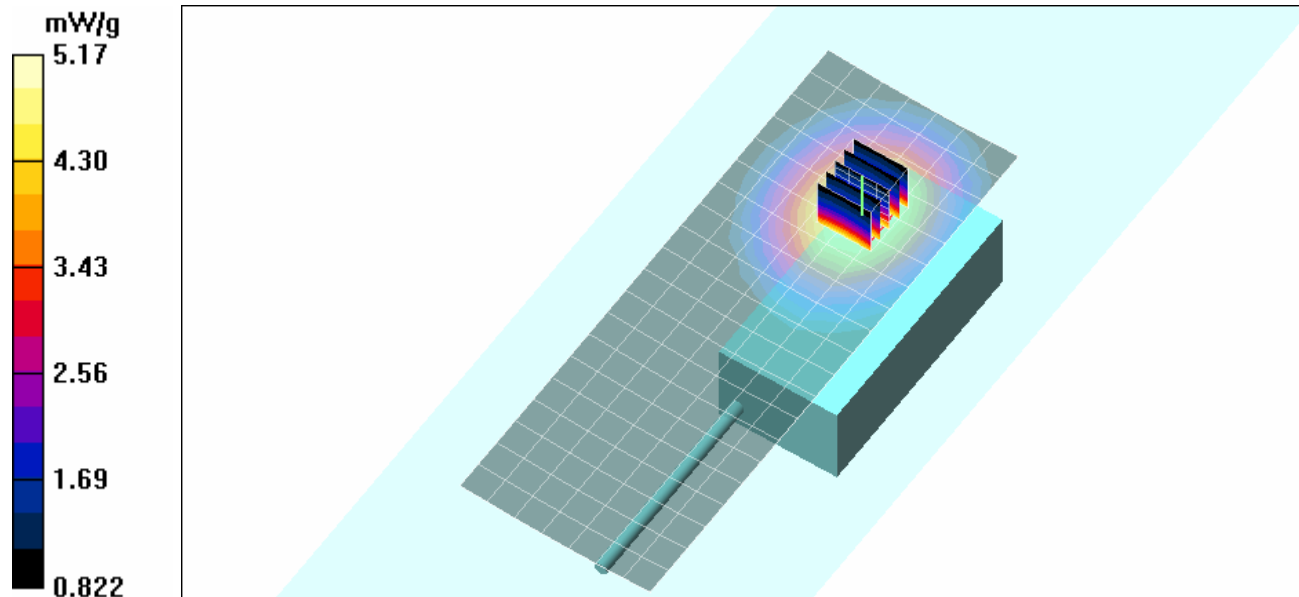
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.6 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 6.34 W/kg

SAR(1 g) = 4.88 mW/g; SAR(10 g) = 3.6 mW/g

Maximum value of SAR (measured) = 5.17 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiMH IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 5.25 mW/g

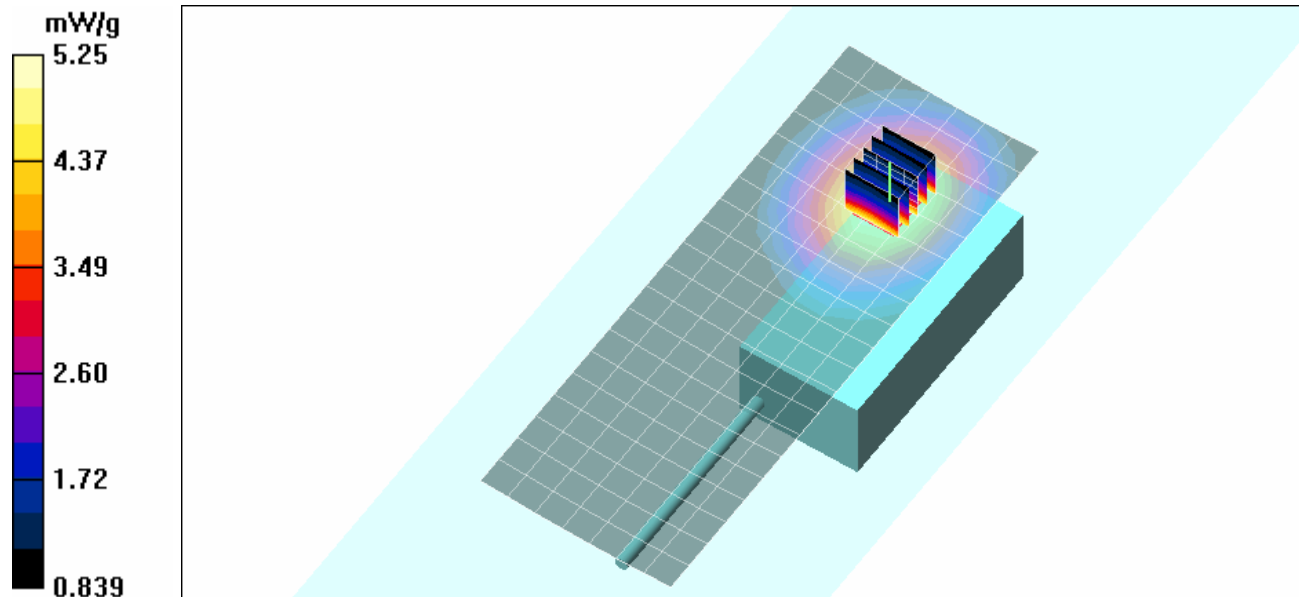
Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Reference Value = 32.3 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 6.48 W/kg

SAR(1 g) = 4.98 mW/g; SAR(10 g) = 3.68 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – Li-ion NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

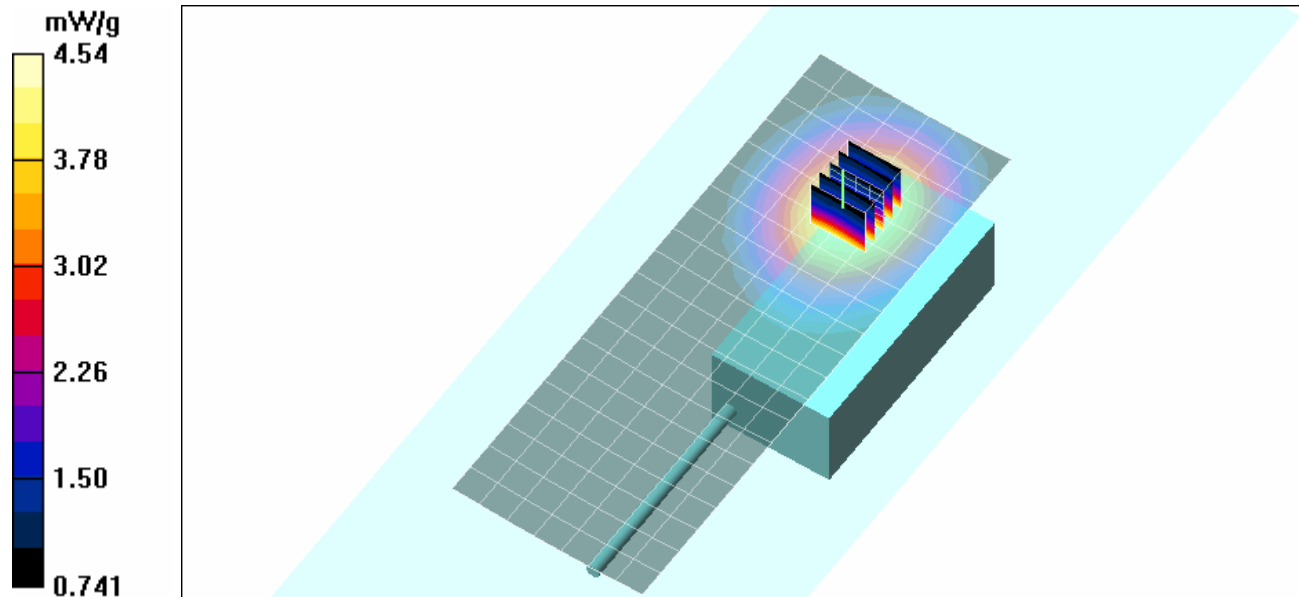
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.8 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 5.63 W/kg

SAR(1 g) = 4.34 mW/g; SAR(10 g) = 3.24 mW/g

Maximum value of SAR (measured) = 4.54 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – Li-ion IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = \sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 4.54 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

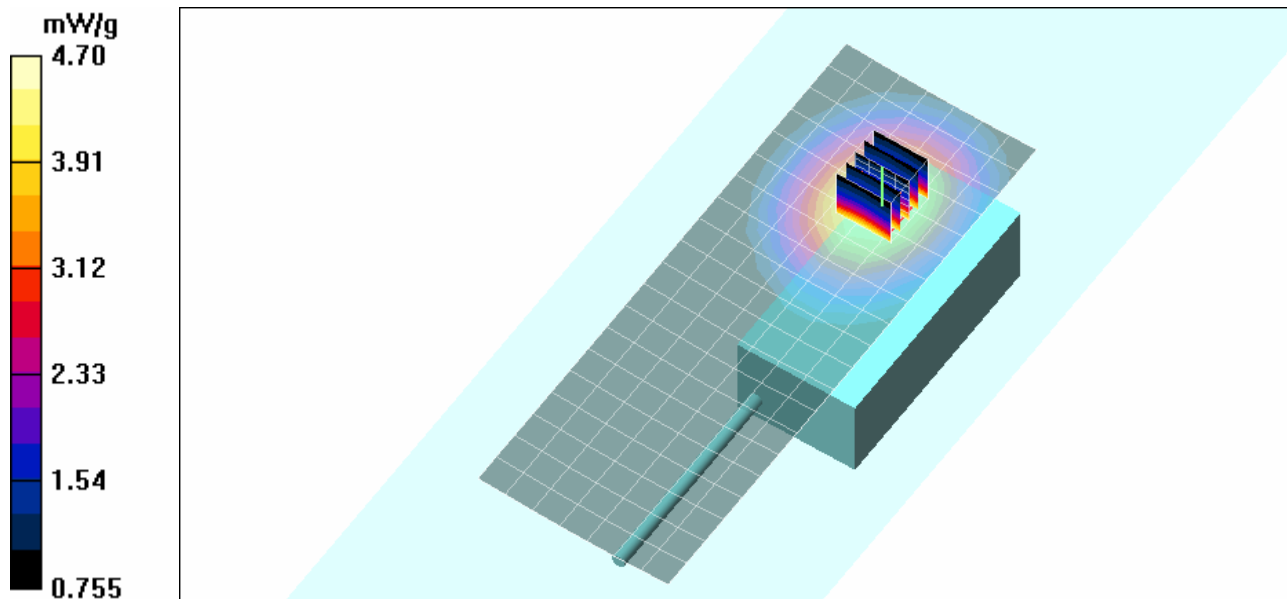
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.0 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 5.74 W/kg

SAR(1 g) = 4.45 mW/g; SAR(10 g) = 3.3 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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Certificate No. 2470.01				

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiCd NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 2.43 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

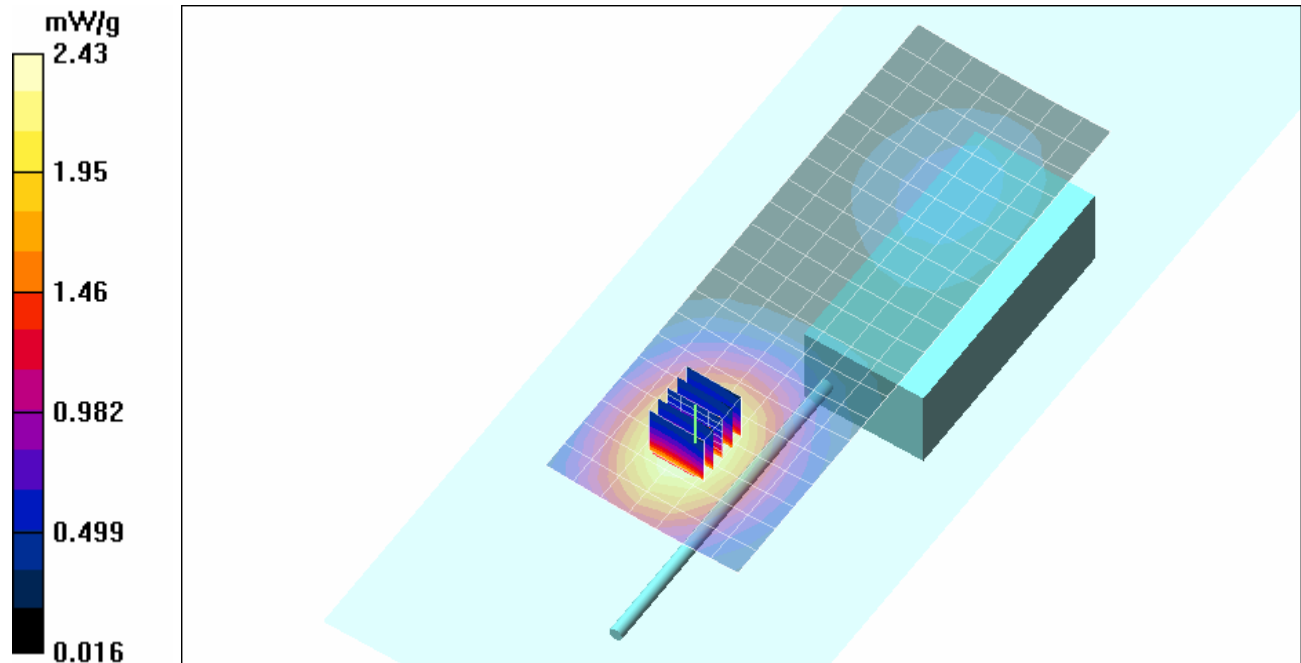
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.0 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.81 mW/g; SAR(10 g) = 1.34 mW/g

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



Company:	M/A-COM, Inc.	Model:	P5400 (800)	FCC ID:	OWDTR-0043-E	IC:	3636B-0043	
DUT Type:	Portable Analog/Digital 800 MHz PTT Radio Transceiver			Freq.:	806-824 MHz / 851-869 MHz			
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Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiCd IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 2.45 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

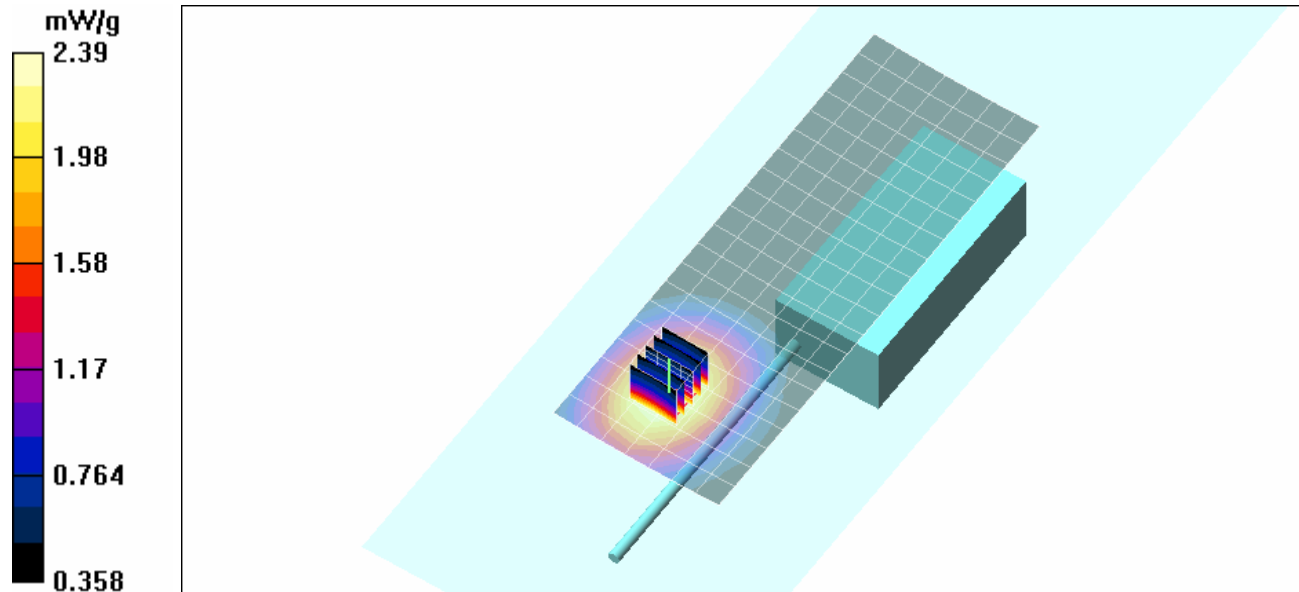
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.4 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.69 mW/g

Maximum value of SAR (measured) = 2.39 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiMH NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 1.23 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

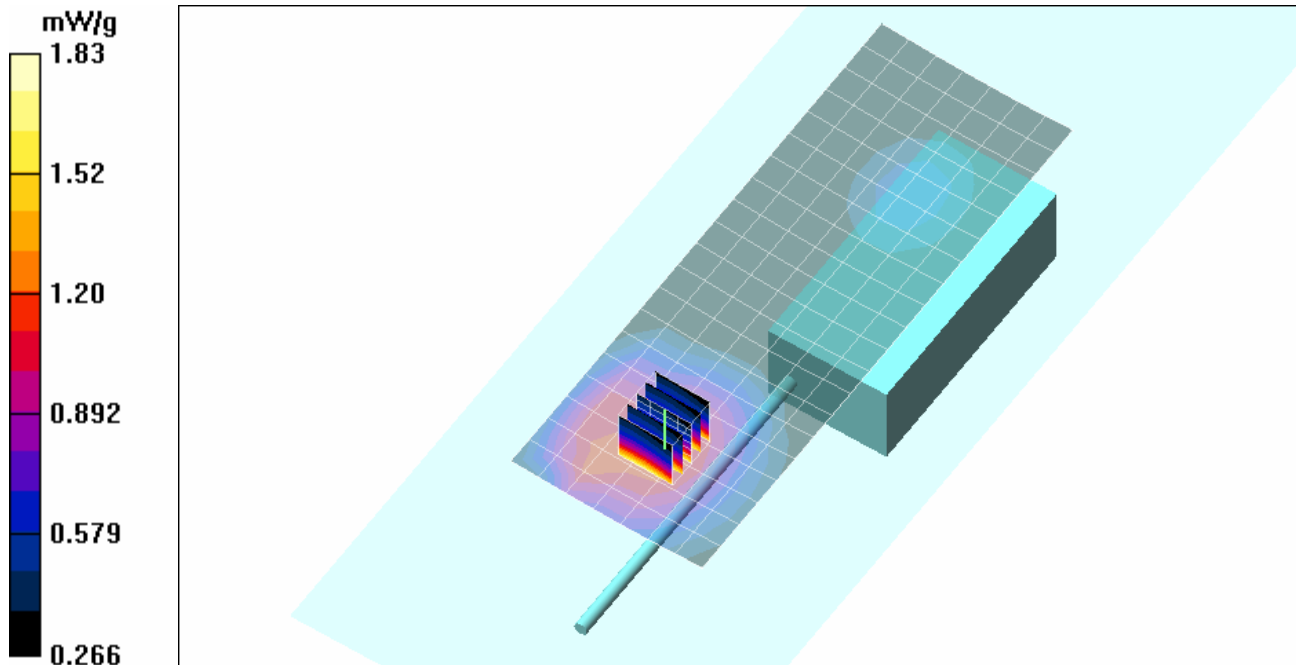
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.0 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.75 mW/g; SAR(10 g) = 1.29 mW/g

Maximum value of SAR (measured) = 1.83 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiMH IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

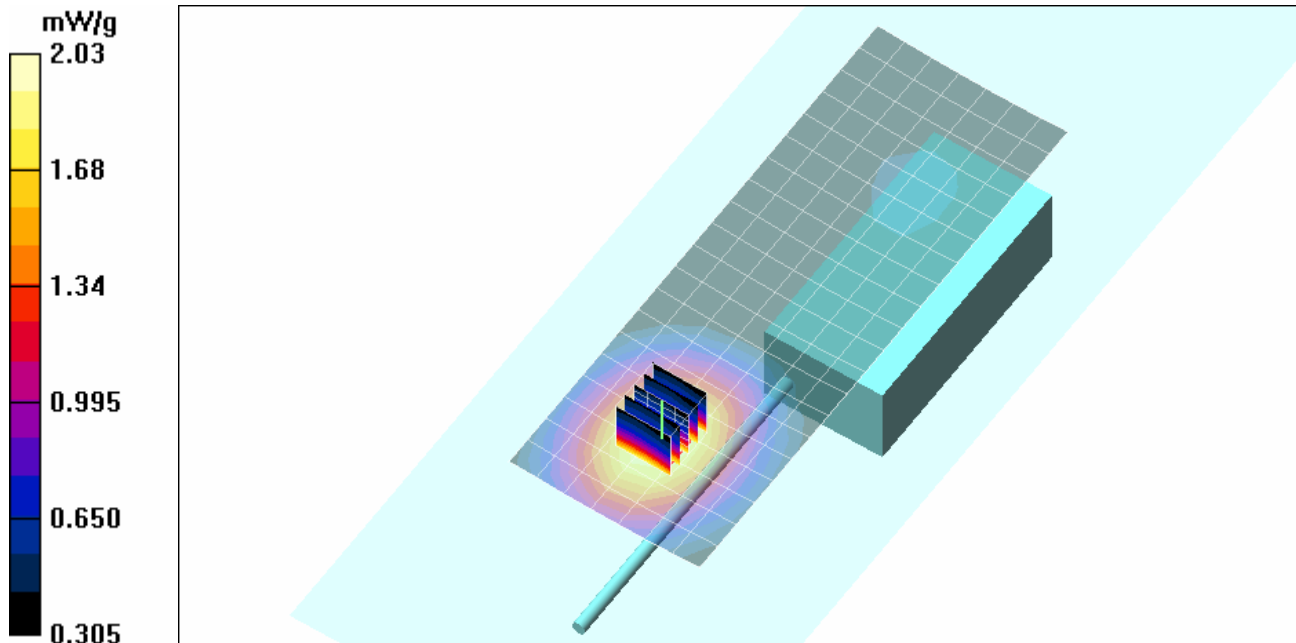
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.4 V/m; Power Drift = 0.294 dB

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.91 mW/g; SAR(10 g) = 1.4 mW/g

Maximum value of SAR (measured) = 2.03 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – Li-Ion NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

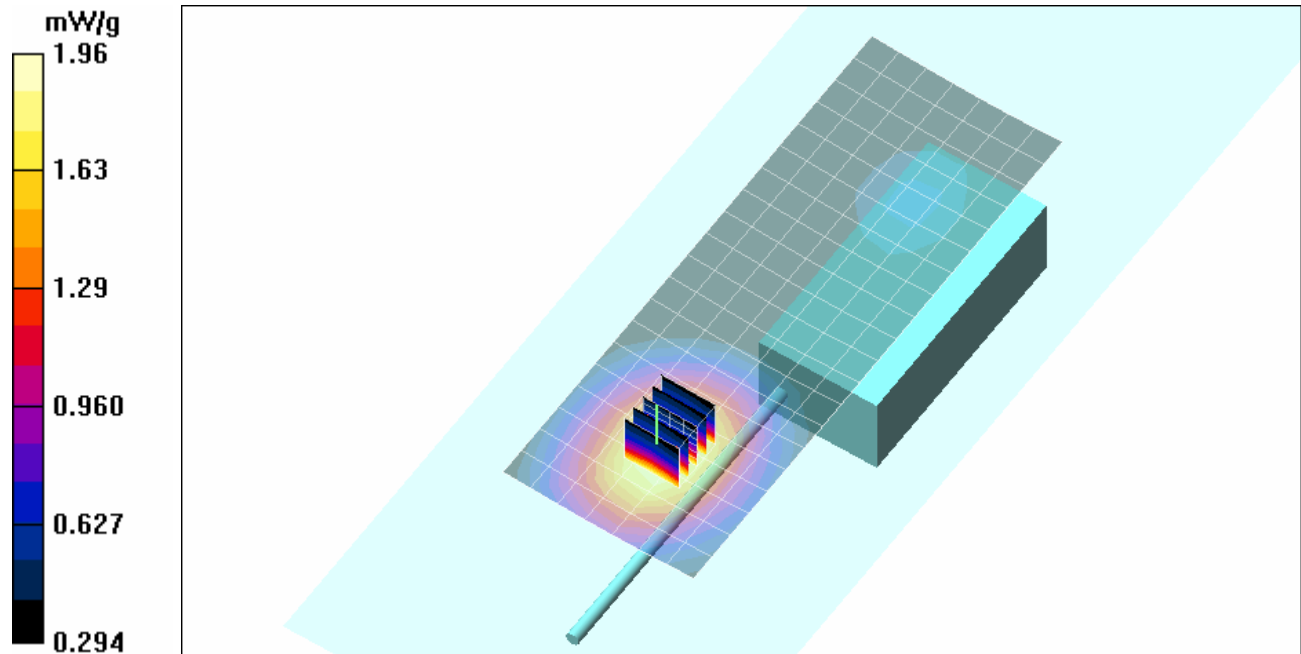
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.8 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.39 mW/g

Maximum value of SAR (measured) = 1.96 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – Li-Ion IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 2.08 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

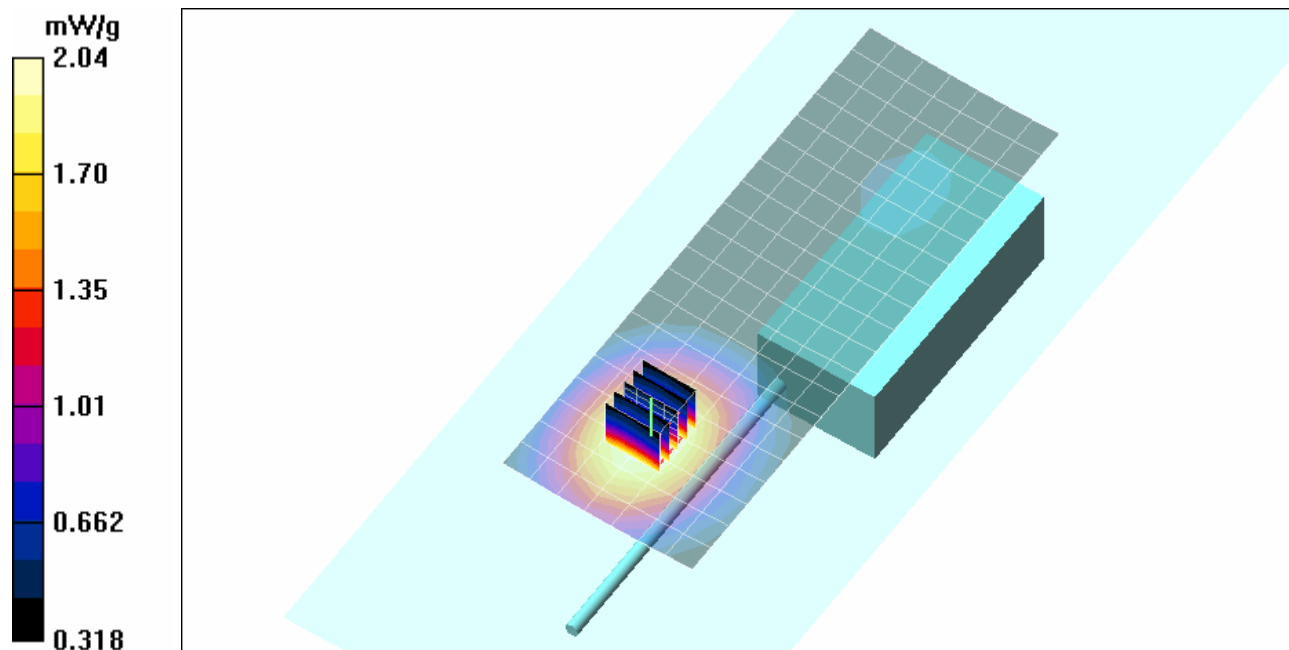
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.6 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 1.93 mW/g; SAR(10 g) = 1.44 mW/g

Maximum value of SAR (measured) = 2.04 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiCd NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 6.43 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

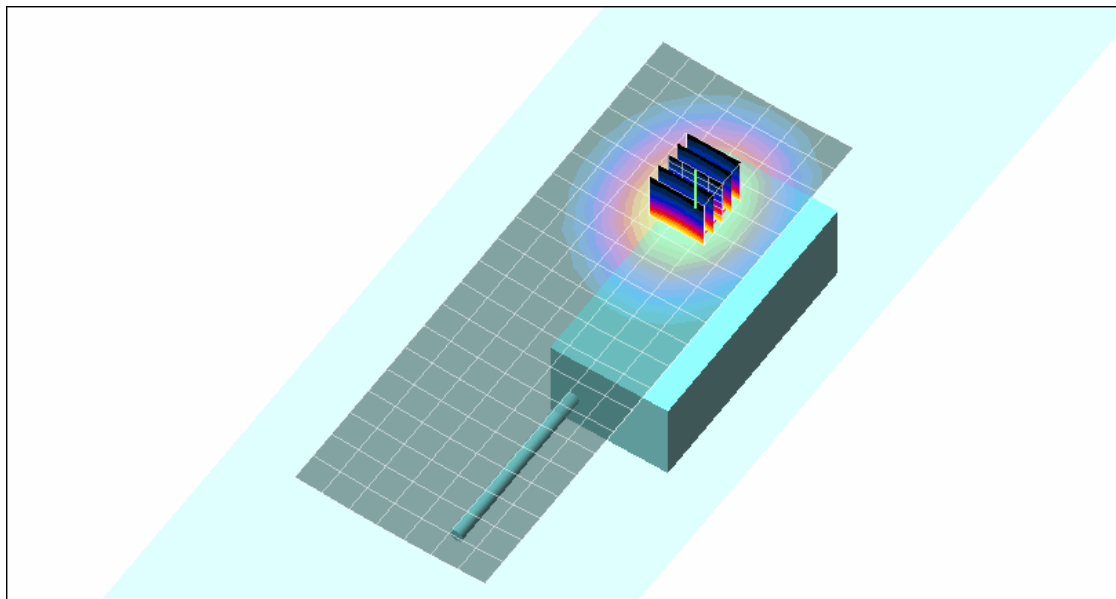
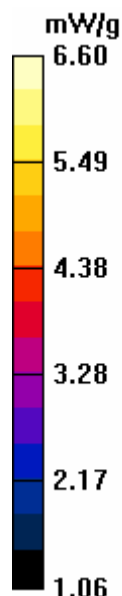
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 39.4 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 8.09 W/kg

SAR(1 g) = 6.24 mW/g; SAR(10 g) = 4.62 mW/g

Maximum value of SAR (measured) = 6.60 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiCd IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 6.62 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

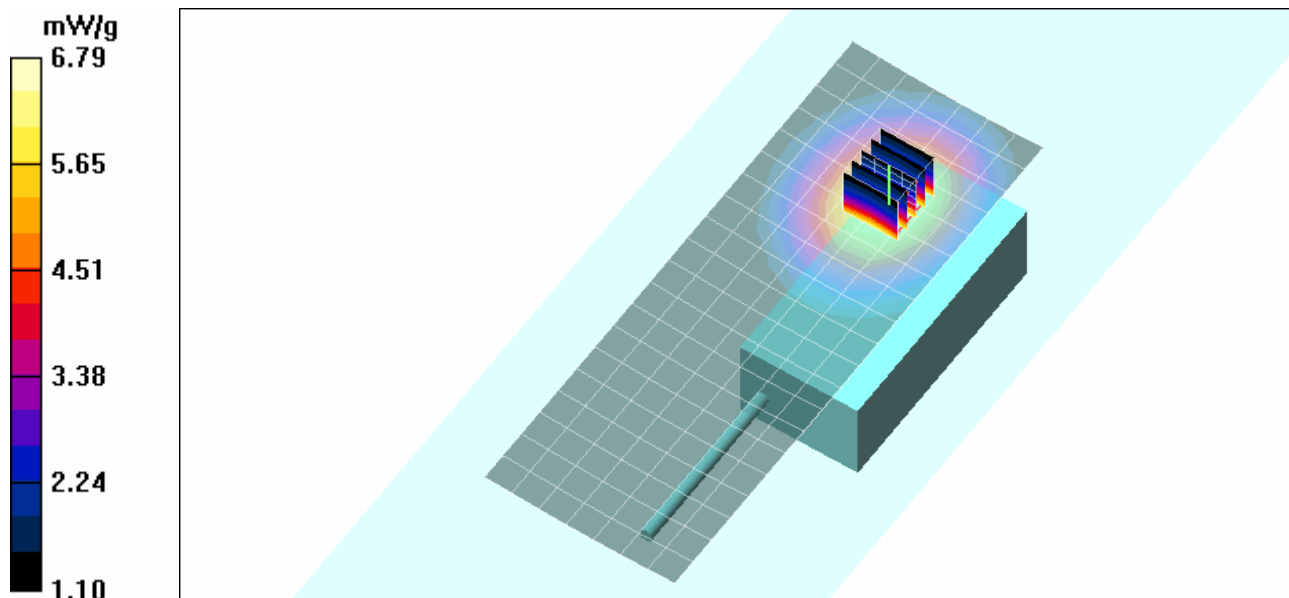
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.9 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 8.28 W/kg

SAR(1 g) = 6.4 mW/g; SAR(10 g) = 4.73 mW/g

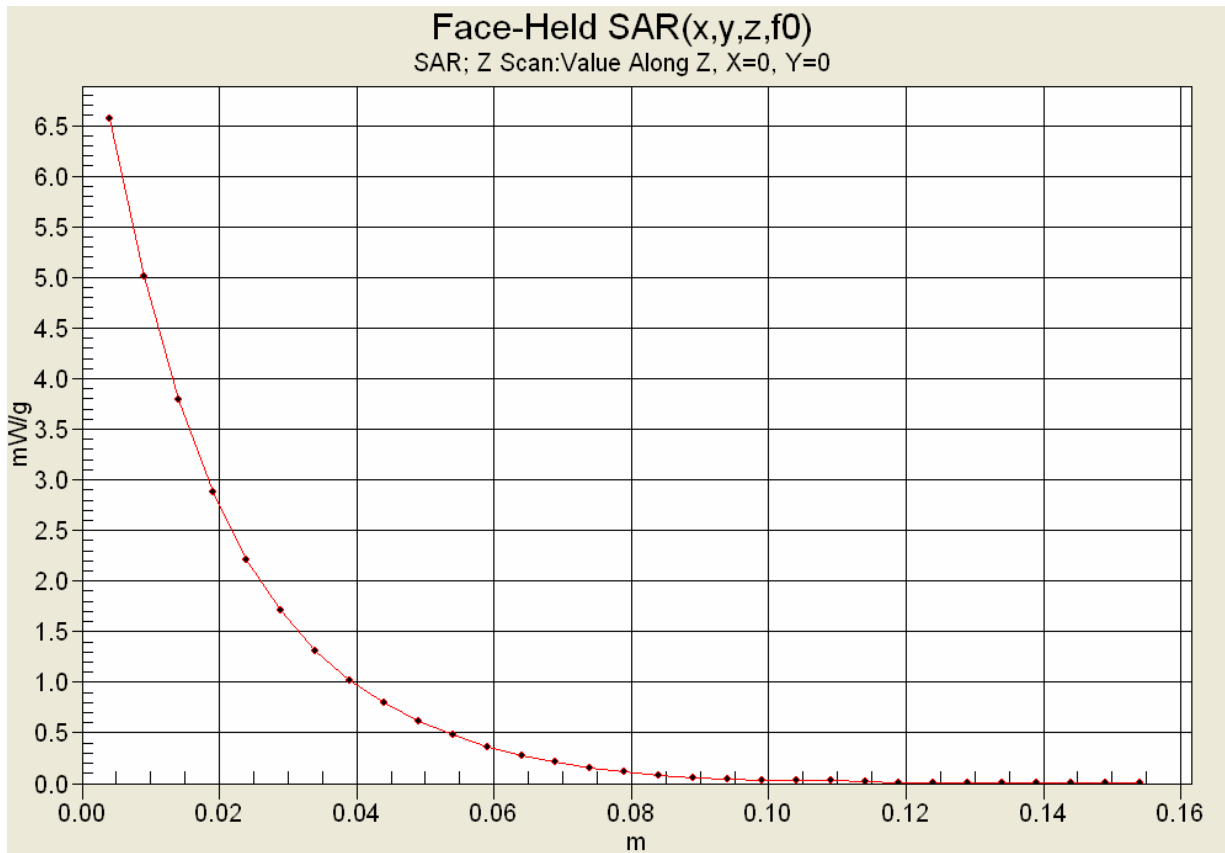
Maximum value of SAR (measured) = 6.79 mW/g



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

Z-Axis Scan



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiMH NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 6.45 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

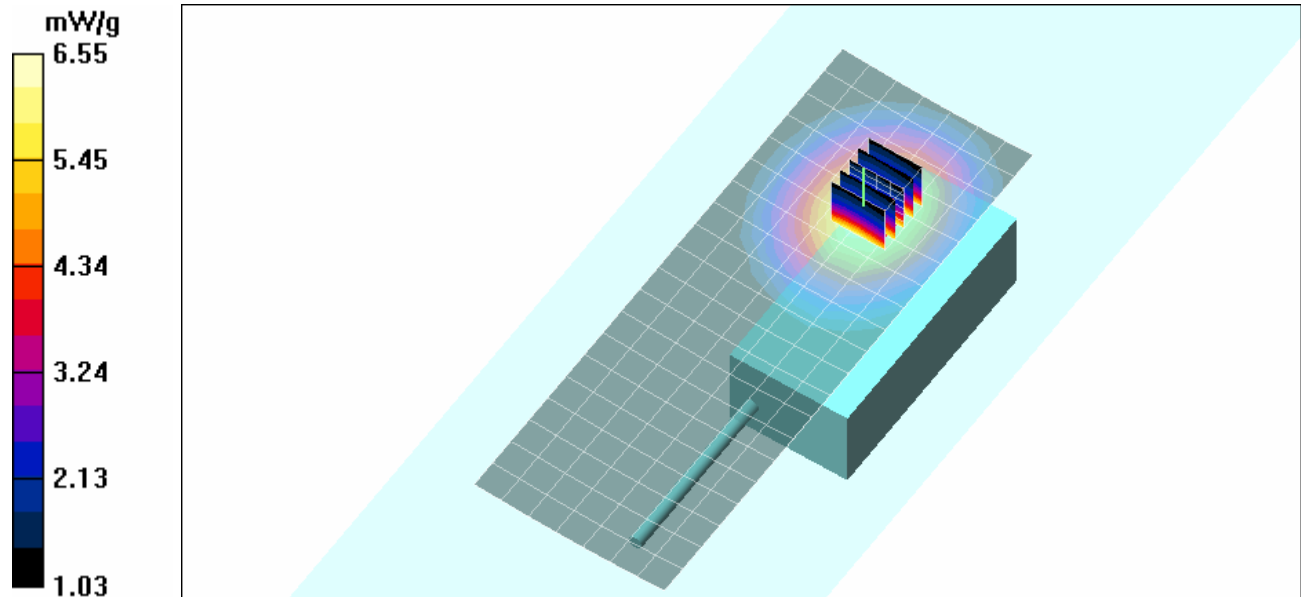
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.3 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 8.07 W/kg

SAR(1 g) = 6.24 mW/g; SAR(10 g) = 4.63 mW/g

Maximum value of SAR (measured) = 6.55 mW/g



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

Certificate No. 2470.01

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – NiMH IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 6.49 mW/g

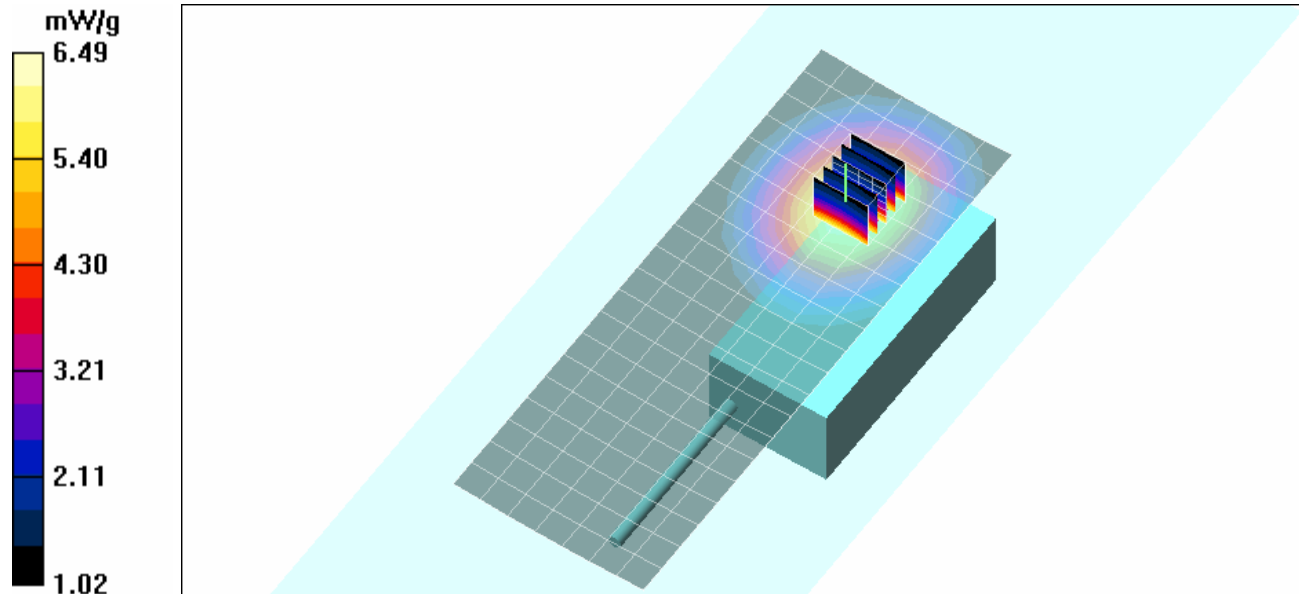
Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Reference Value = 37.3 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 7.99 W/kg

SAR(1 g) = 6.19 mW/g; SAR(10 g) = 4.6 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – Li-Ion NIS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 6.32 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

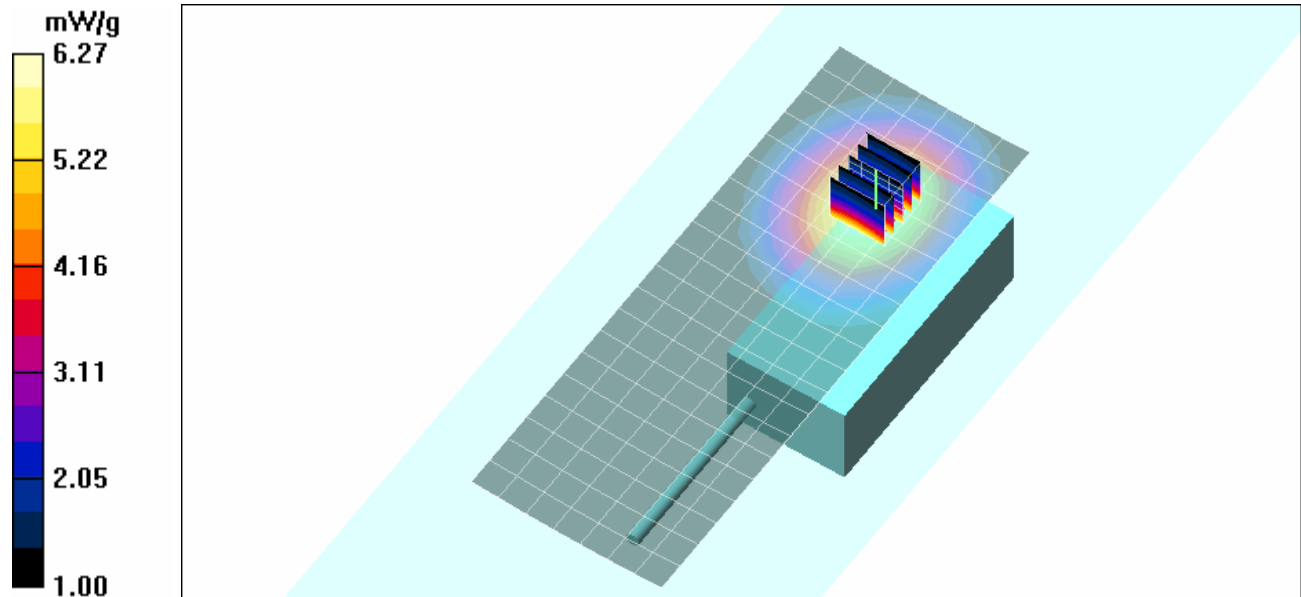
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.1 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 7.65 W/kg

SAR(1 g) = 5.96 mW/g; SAR(10 g) = 4.43 mW/g

Maximum value of SAR (measured) = 6.27 mW/g



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

Date Tested: 02/12/2008

Face-Held SAR – Scan Radio – Li-Ion IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 24.1°C; Fluid Temp: 23°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 6.49 mW/g

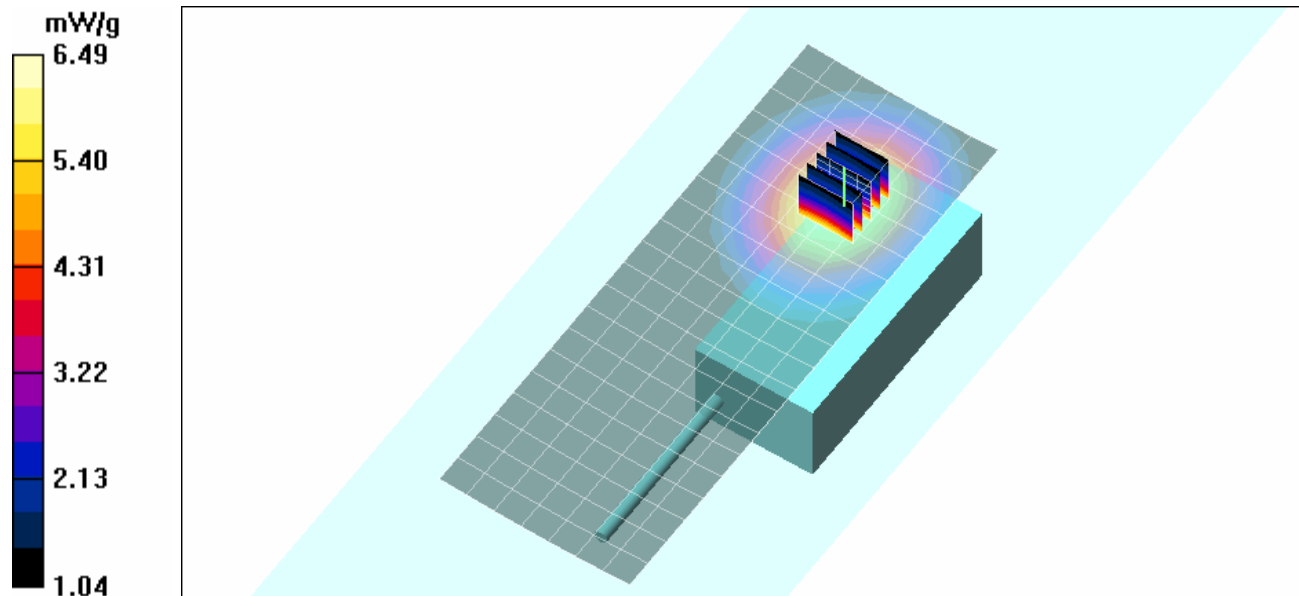
Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Reference Value = 37.1 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 7.96 W/kg

SAR(1 g) = 6.21 mW/g; SAR(10 g) = 4.6 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiCd NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

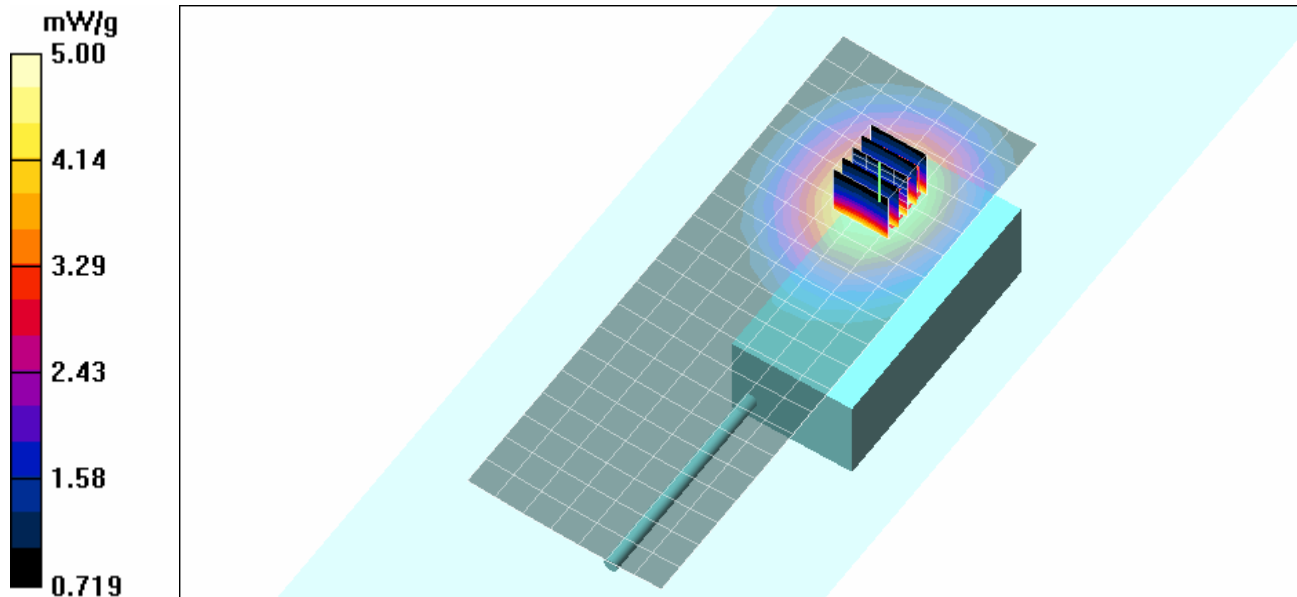
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.7 V/m; Power Drift = 0.239 dB

Peak SAR (extrapolated) = 6.19 W/kg

SAR(1 g) = 4.76 mW/g; SAR(10 g) = 3.48 mW/g

Maximum value of SAR (measured) = 5.00 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiCd IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 4.94 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

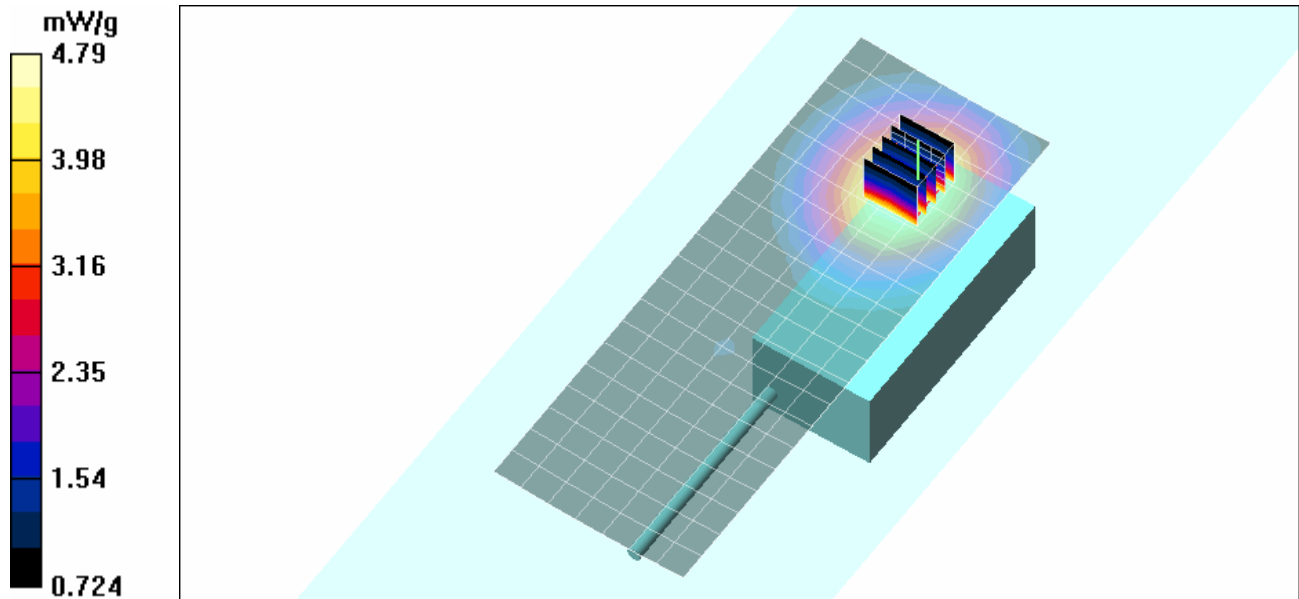
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.3 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 5.91 W/kg

SAR(1 g) = 4.55 mW/g; SAR(10 g) = 3.33 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiMH NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 5.47 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

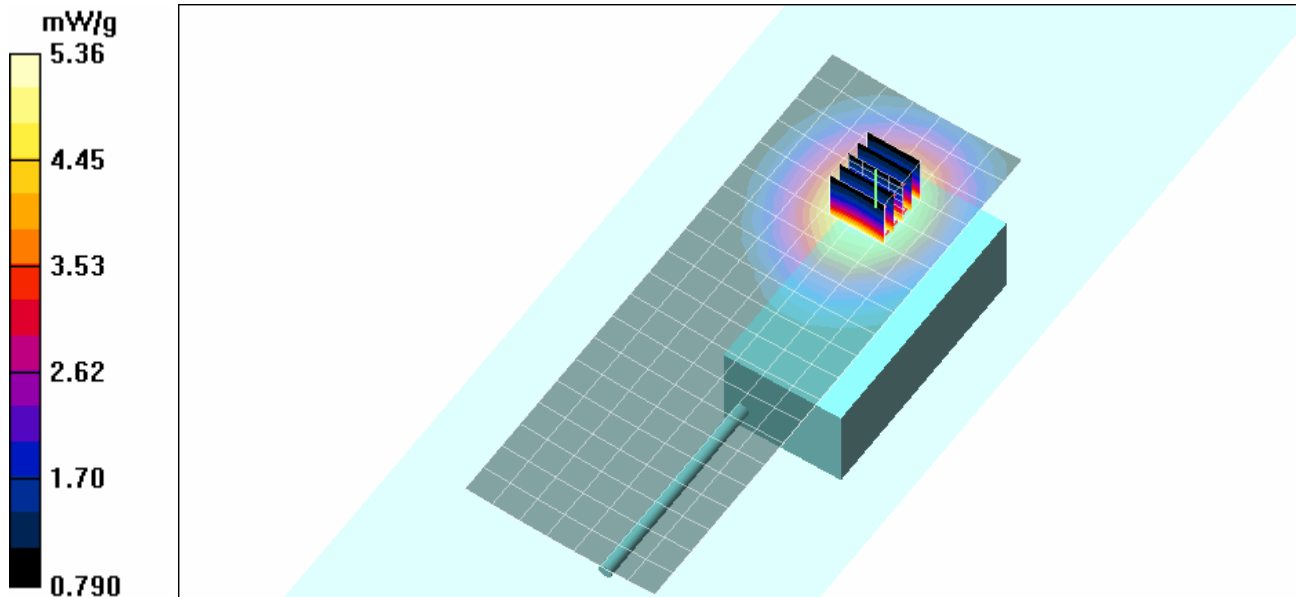
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.3 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 6.58 W/kg

SAR(1 g) = 5.07 mW/g; SAR(10 g) = 3.71 mW/g

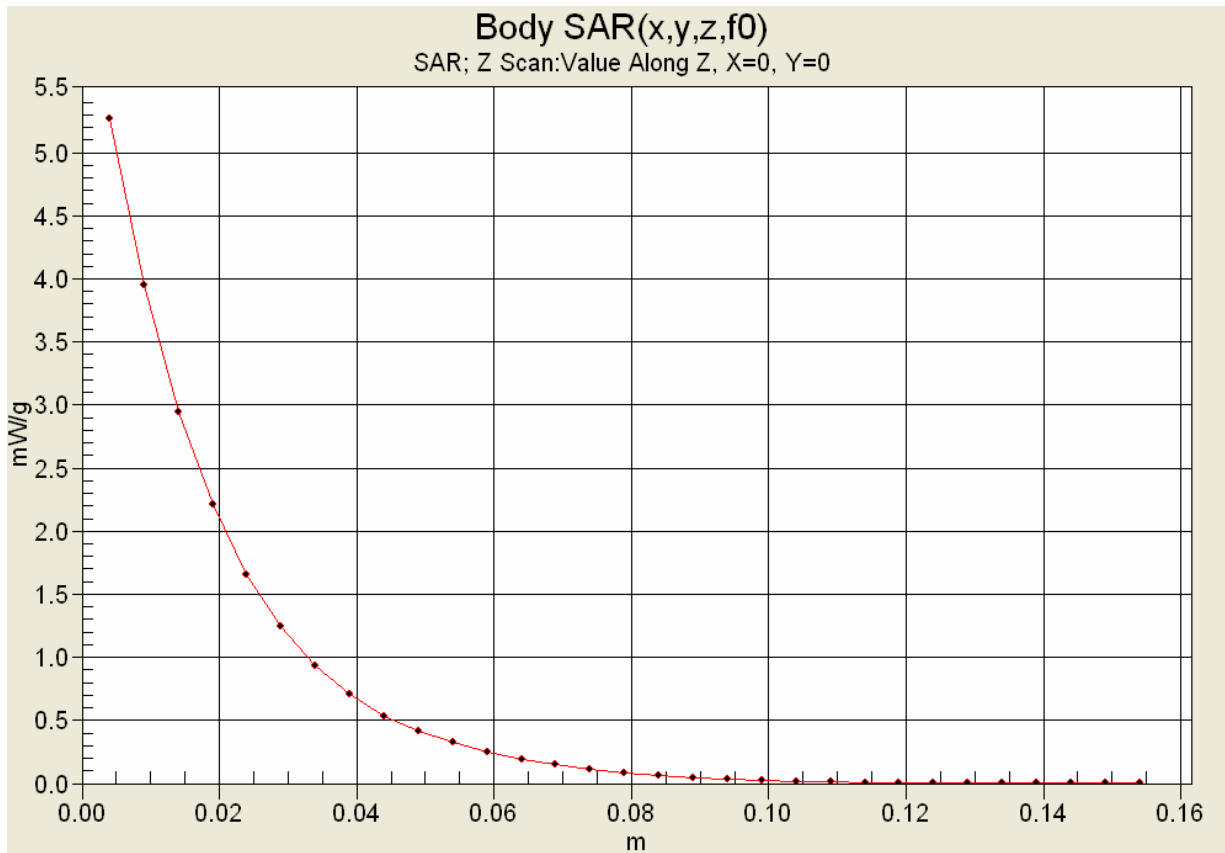
Maximum value of SAR (measured) = 5.36 mW/g



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

Z-Axis Scan



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

Certificate No. 2470.01

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiMH IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

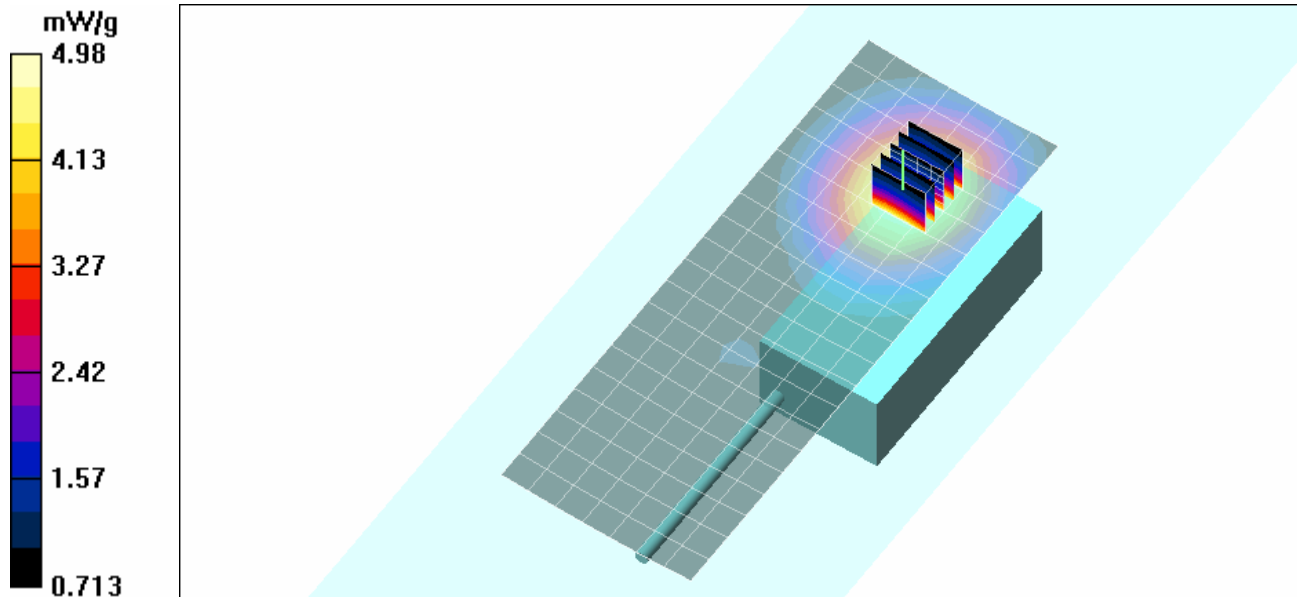
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.5 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 6.17 W/kg

SAR(1 g) = 4.73 mW/g; SAR(10 g) = 3.46 mW/g

Maximum value of SAR (measured) = 4.98 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – Li-Ion NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 5.11 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

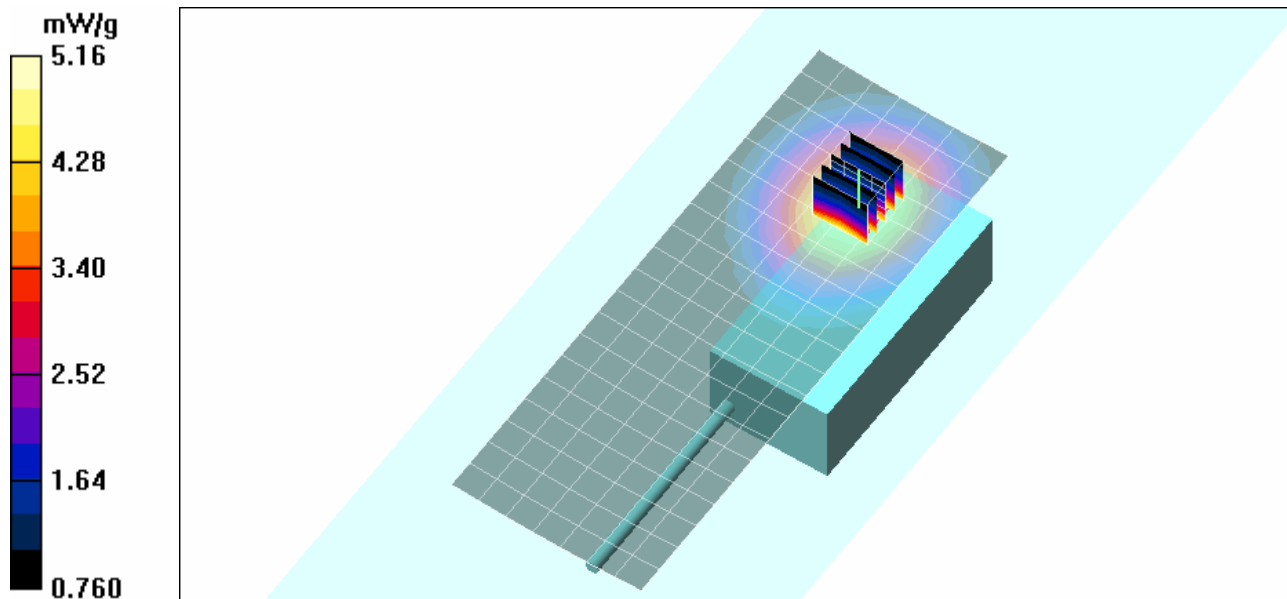
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.8 V/m; Power Drift = -0.224 dB

Peak SAR (extrapolated) = 6.38 W/kg

SAR(1 g) = 4.89 mW/g; SAR(10 g) = 3.54 mW/g

Maximum value of SAR (measured) = 5.16 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – Li-Ion IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 5.05 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

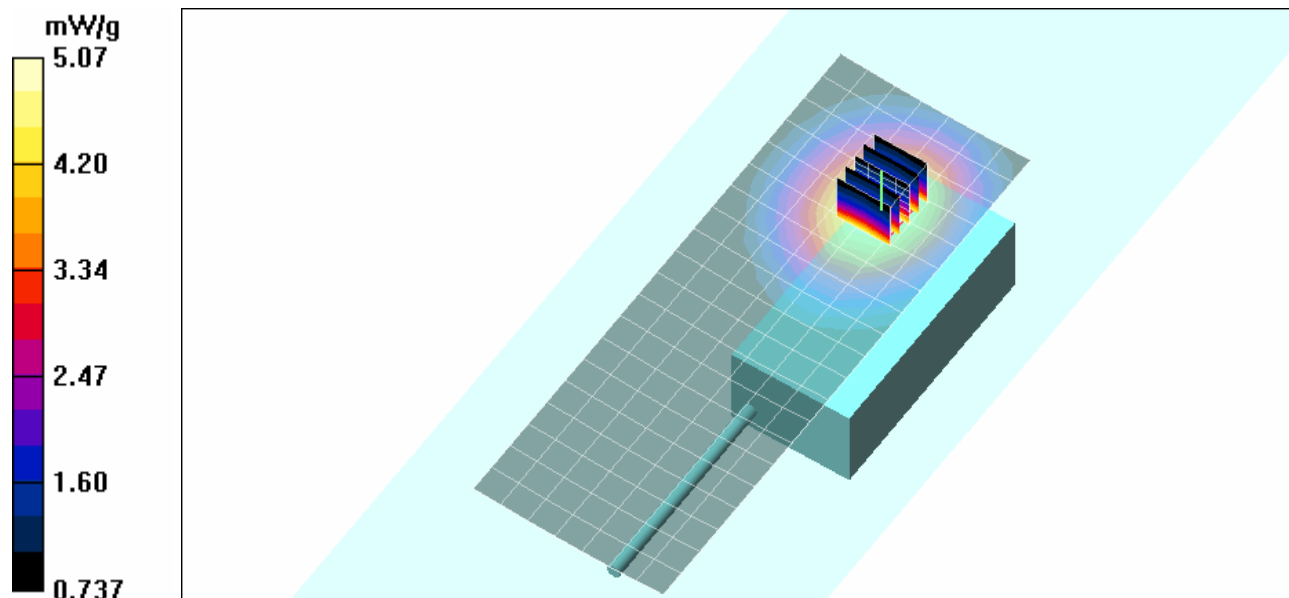
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.1 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 6.24 W/kg

SAR(1 g) = 4.79 mW/g; SAR(10 g) = 3.5 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiCd NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

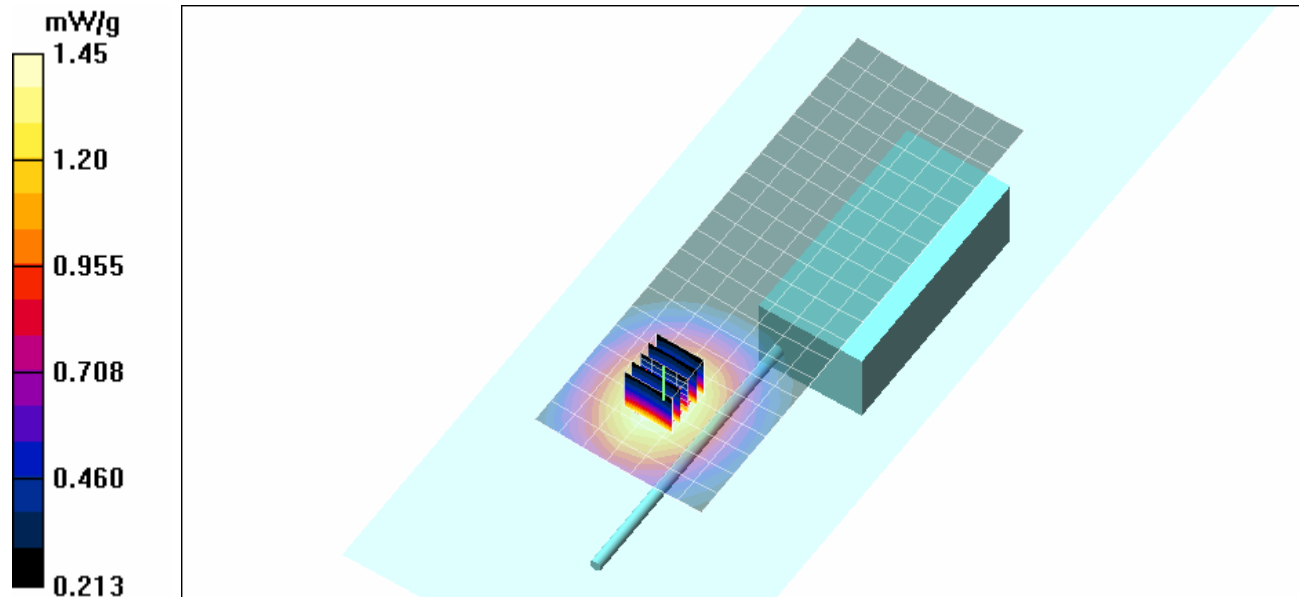
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.43 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 1.80 W/kg

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

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiCd IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 1.82 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

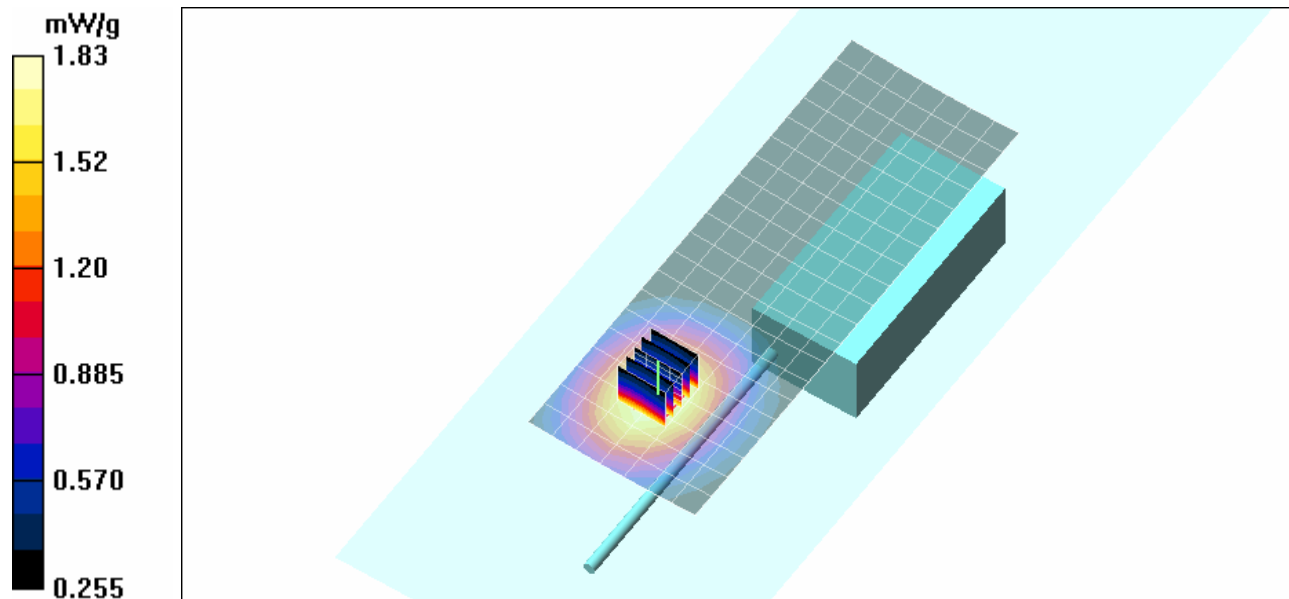
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.73 V/m; Power Drift = -0.633 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 1.73 mW/g; SAR(10 g) = 1.26 mW/g

Maximum value of SAR (measured) = 1.83 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiMH NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 1.64 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

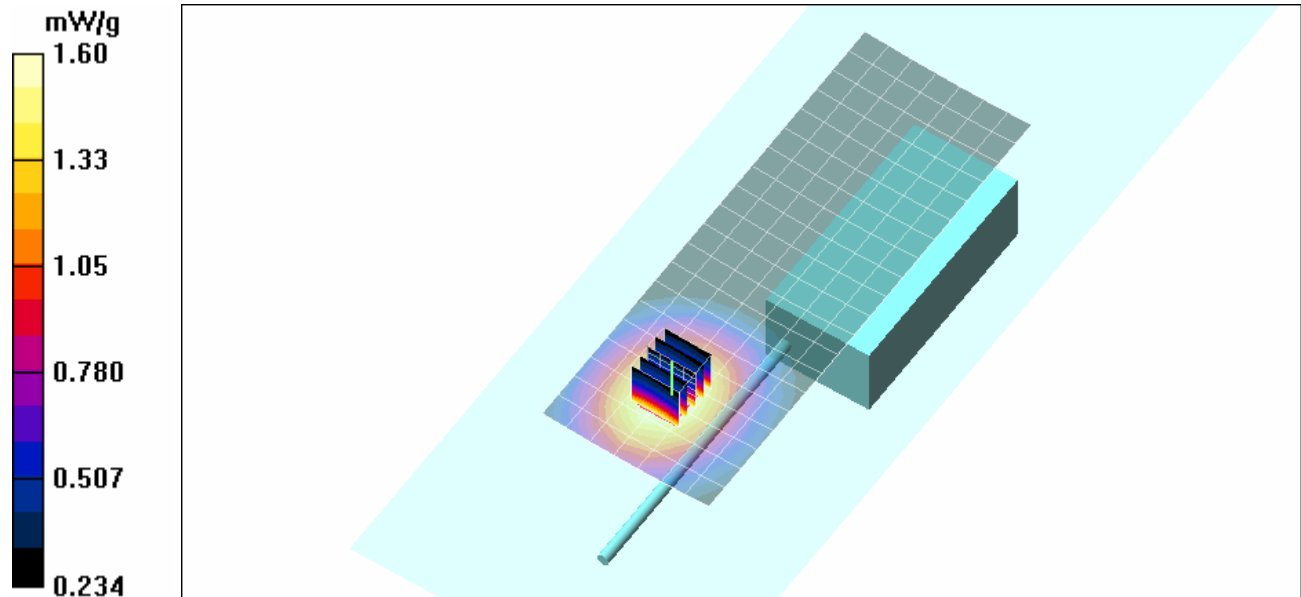
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.07 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 1.52 mW/g; SAR(10 g) = 1.11 mW/g

Maximum value of SAR (measured) = 1.60 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiMH IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 1.26 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

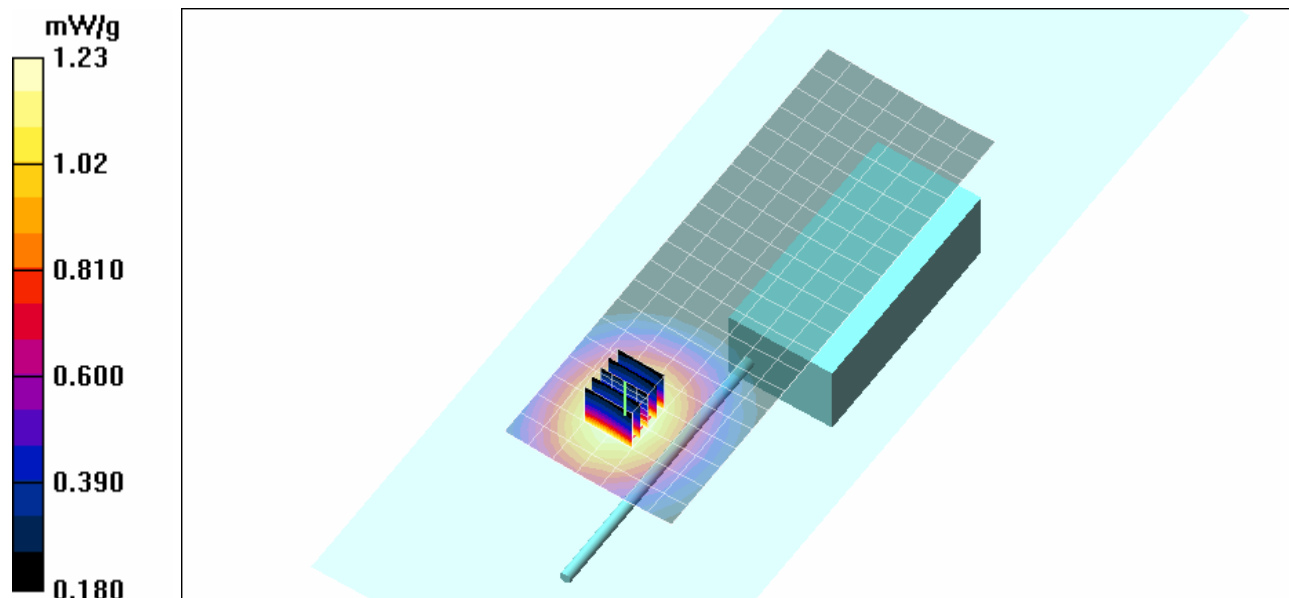
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.87 V/m; Power Drift = -0.067 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.860 mW/g

Maximum value of SAR (measured) = 1.23 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – Li-Ion NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

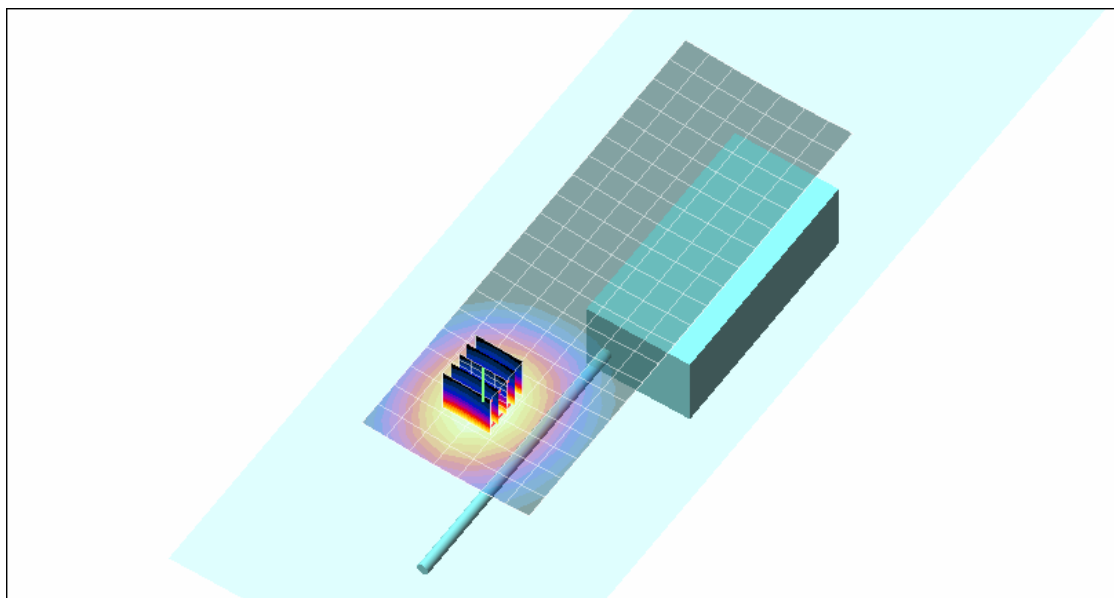
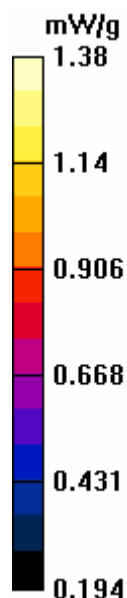
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.66 V/m; Power Drift = -0.274 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.967 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – Li-Ion IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 2.12 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

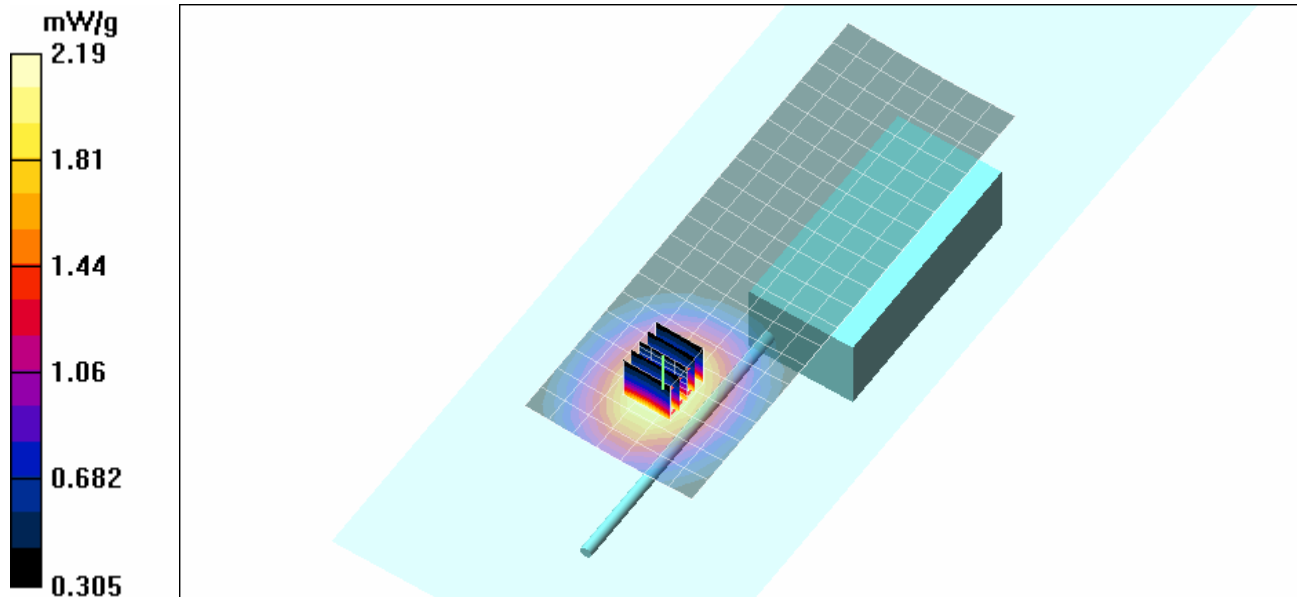
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.28 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 2.06 mW/g; SAR(10 g) = 1.49 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiCd NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

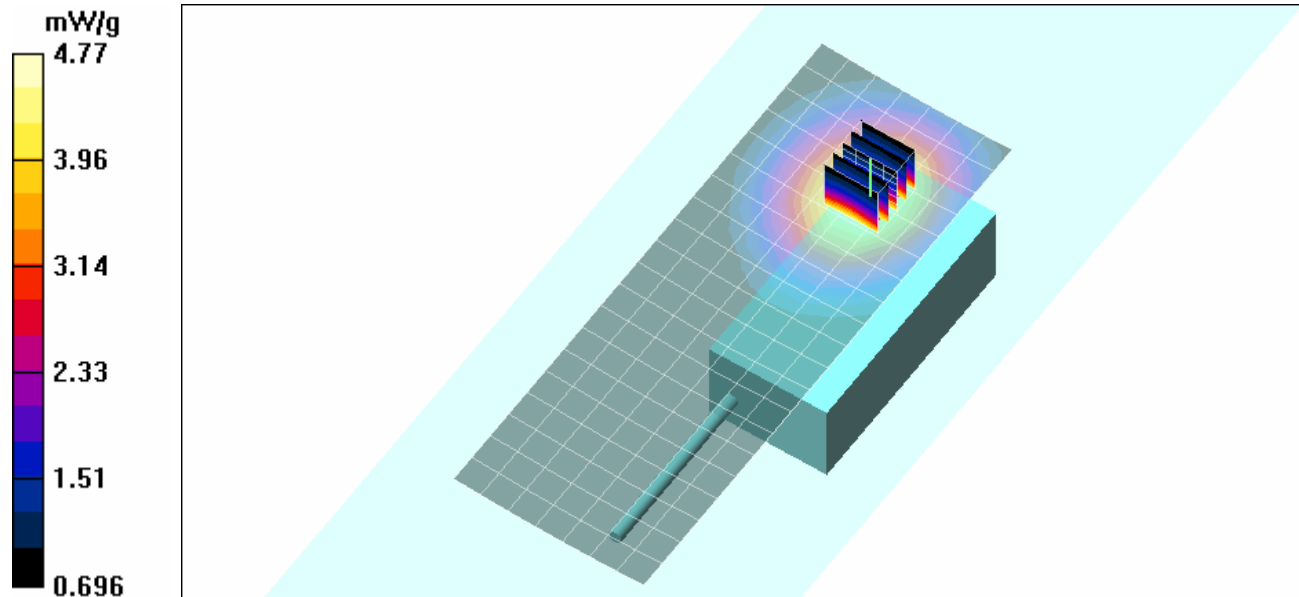
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.7 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 5.86 W/kg

SAR(1 g) = 4.51 mW/g; SAR(10 g) = 3.29 mW/g

Maximum value of SAR (measured) = 4.77 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiCd IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 4.98 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

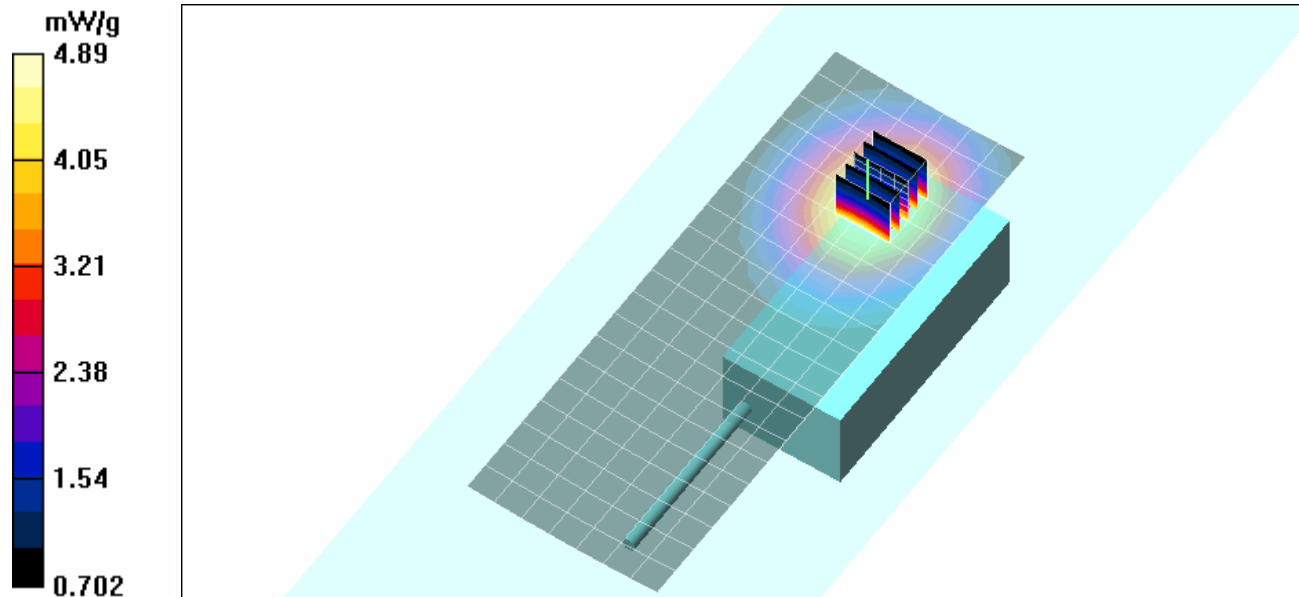
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.8 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 6.03 W/kg

SAR(1 g) = 4.66 mW/g; SAR(10 g) = 3.4 mW/g

Maximum value of SAR (measured) = 4.89 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiMH NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

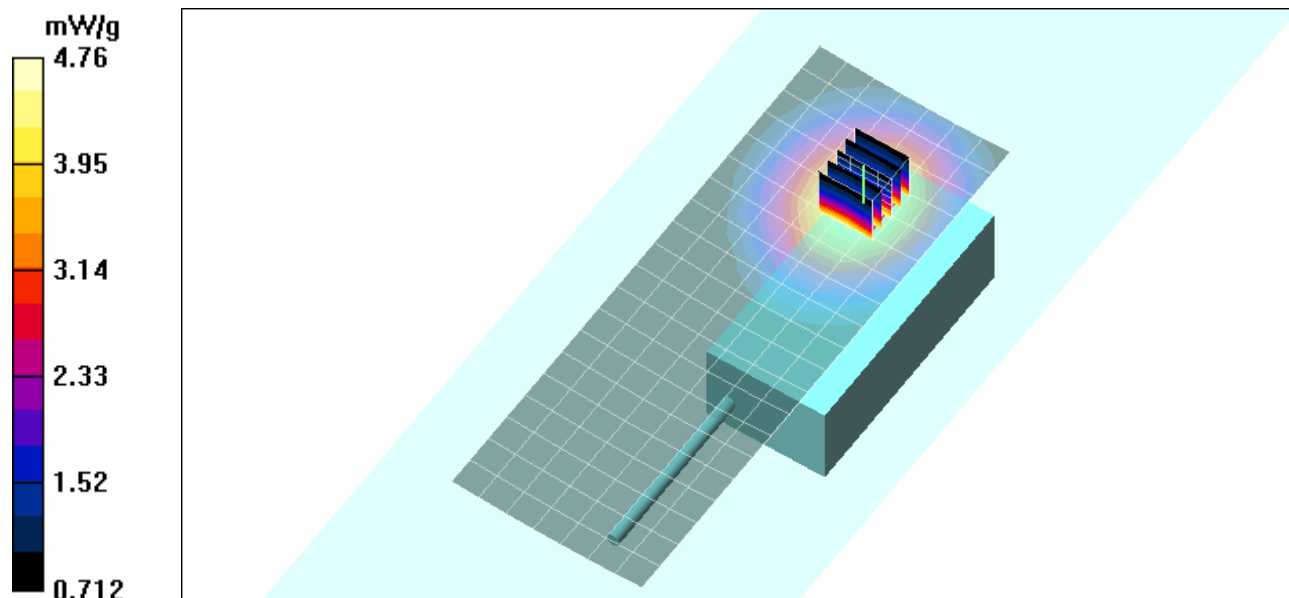
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.0 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 5.83 W/kg

SAR(1 g) = 4.52 mW/g; SAR(10 g) = 3.32 mW/g

Maximum value of SAR (measured) = 4.76 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – NiMH IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 4.91 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

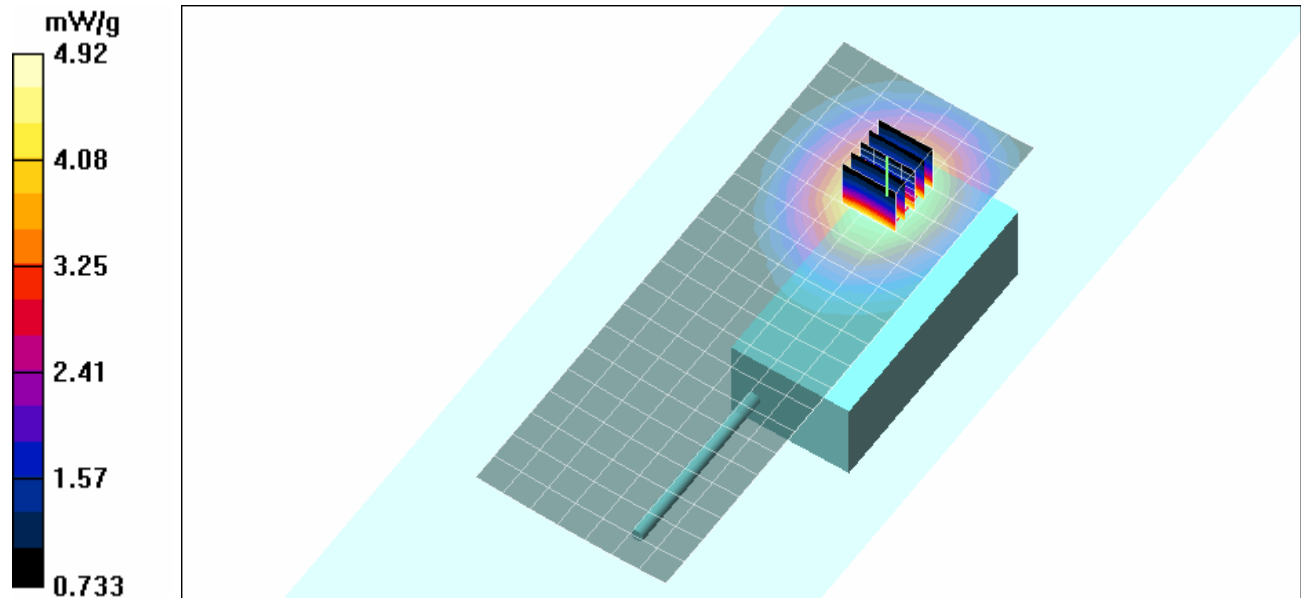
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.0 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 6.04 W/kg

SAR(1 g) = 4.65 mW/g; SAR(10 g) = 3.4 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – Li-Ion NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 5.10 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

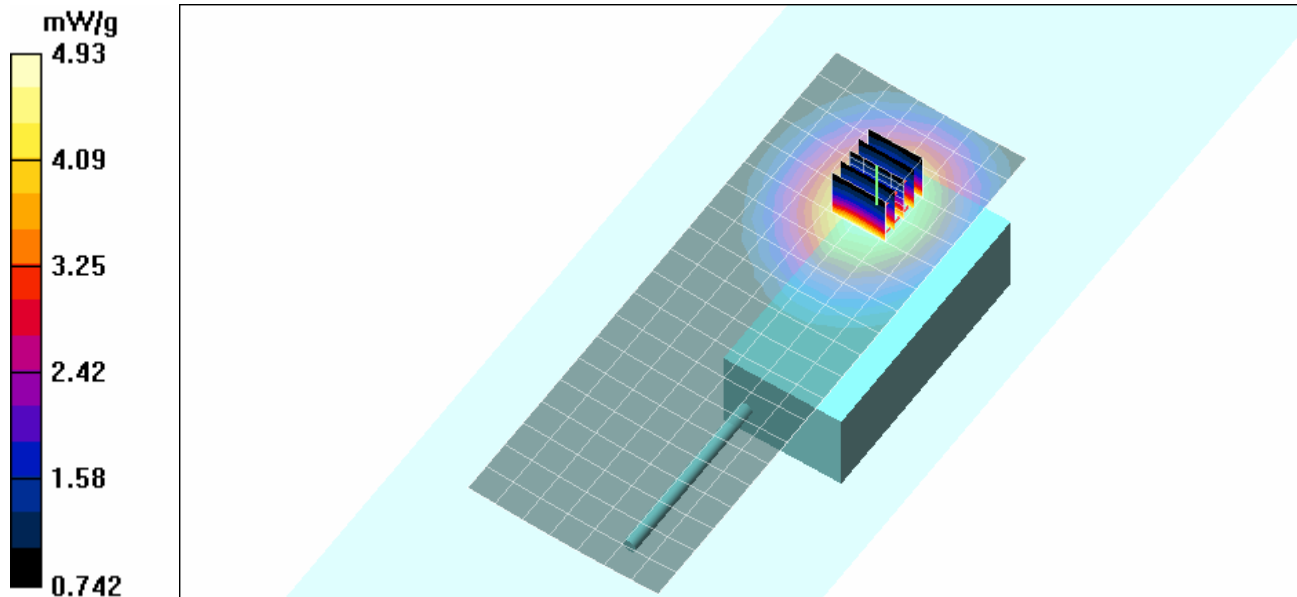
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.2 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 6.08 W/kg

SAR(1 g) = 4.67 mW/g; SAR(10 g) = 3.44 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Scan Radio – Li-Ion IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

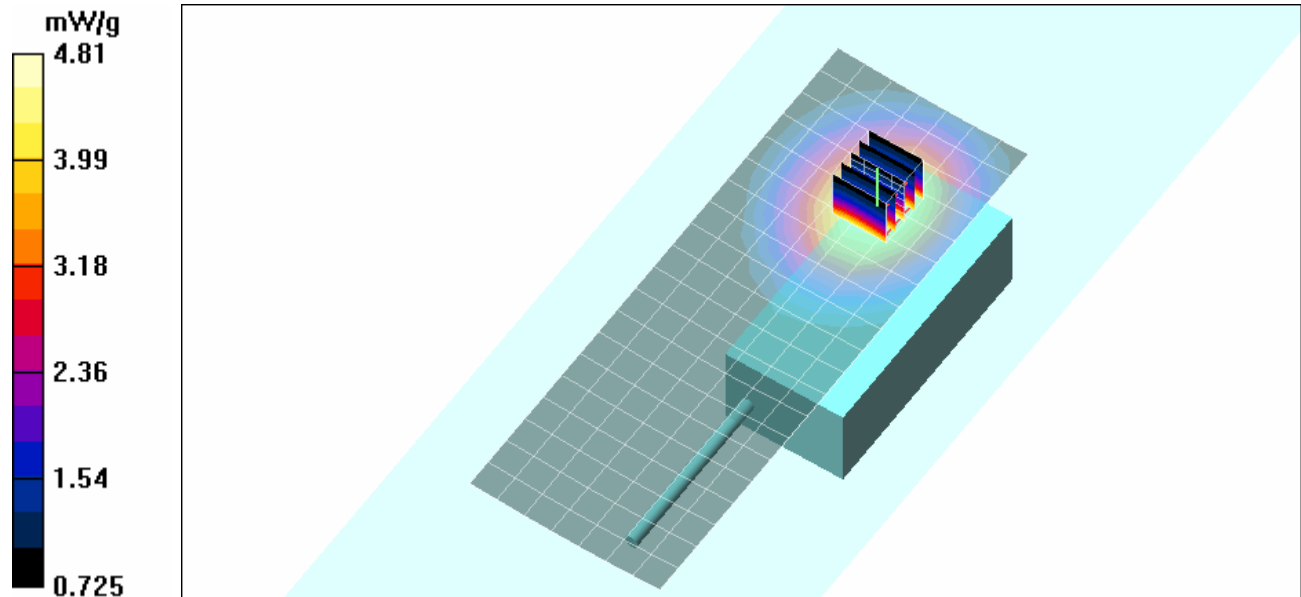
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.1 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 5.91 W/kg

SAR(1 g) = 4.55 mW/g; SAR(10 g) = 3.33 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Speaker-Mic with Antenna – NiMH IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 1.96 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

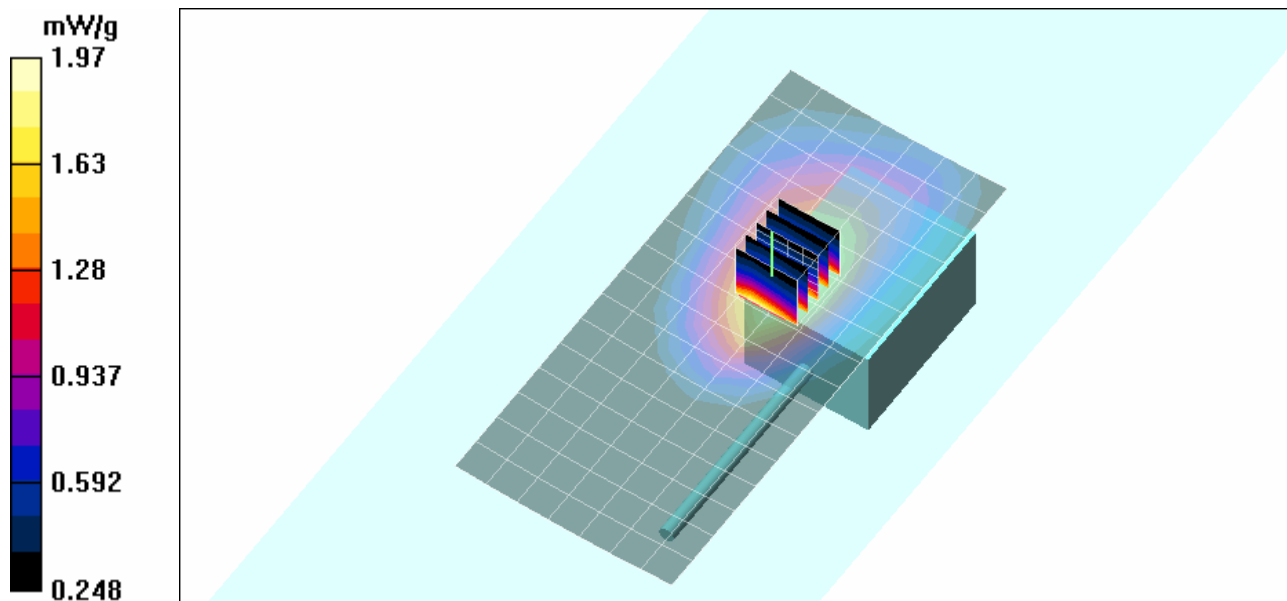
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 46.6 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.32 mW/g

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



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

Date Tested: 02/13/2008

Face-Held SAR – Speaker-Mic with Antenna – NiCd IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

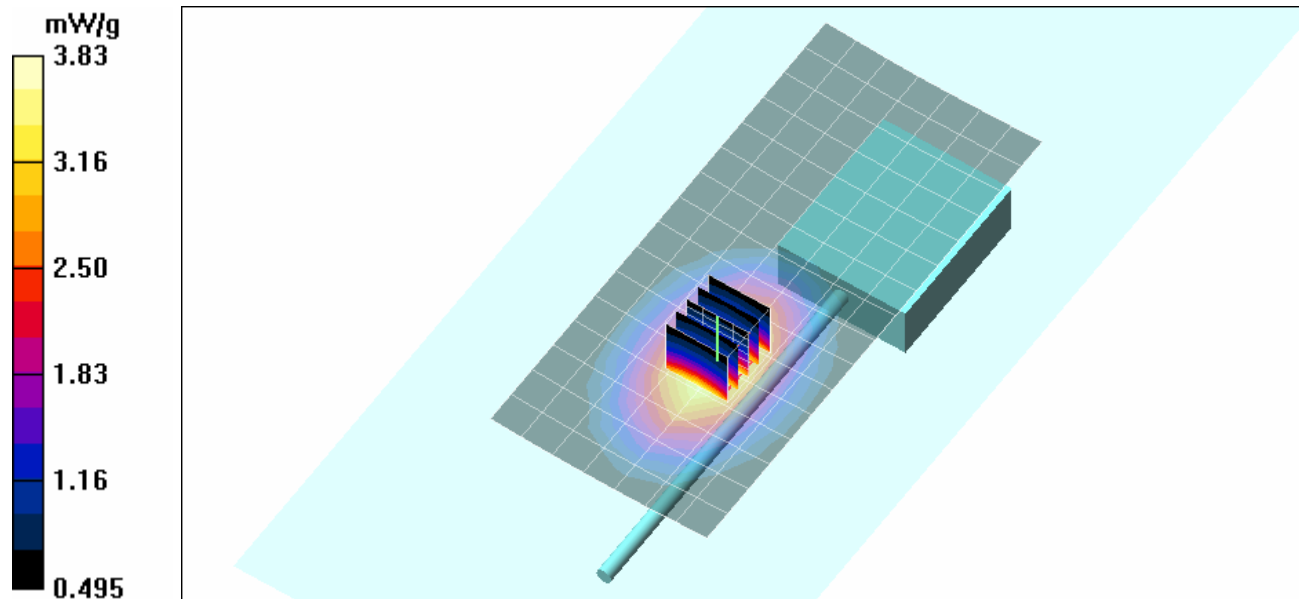
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.4 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 4.86 W/kg

SAR(1 g) = 3.6 mW/g; SAR(10 g) = 2.56 mW/g

Maximum value of SAR (measured) = 3.83 mW/g



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

Date Tested: 02/13/2008

Face-Held SAR – Speaker-Mic with Antenna – NiCd IS Battery – Band 1 - 823.9875 MHz

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

Ambient Temp: 21.0°C; Fluid Temp: 22°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

RF Conducted Power: 3.19 Watts

Frequency: 823.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 823.9875 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

Maximum value of SAR (measured) = 2.67 mW/g

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

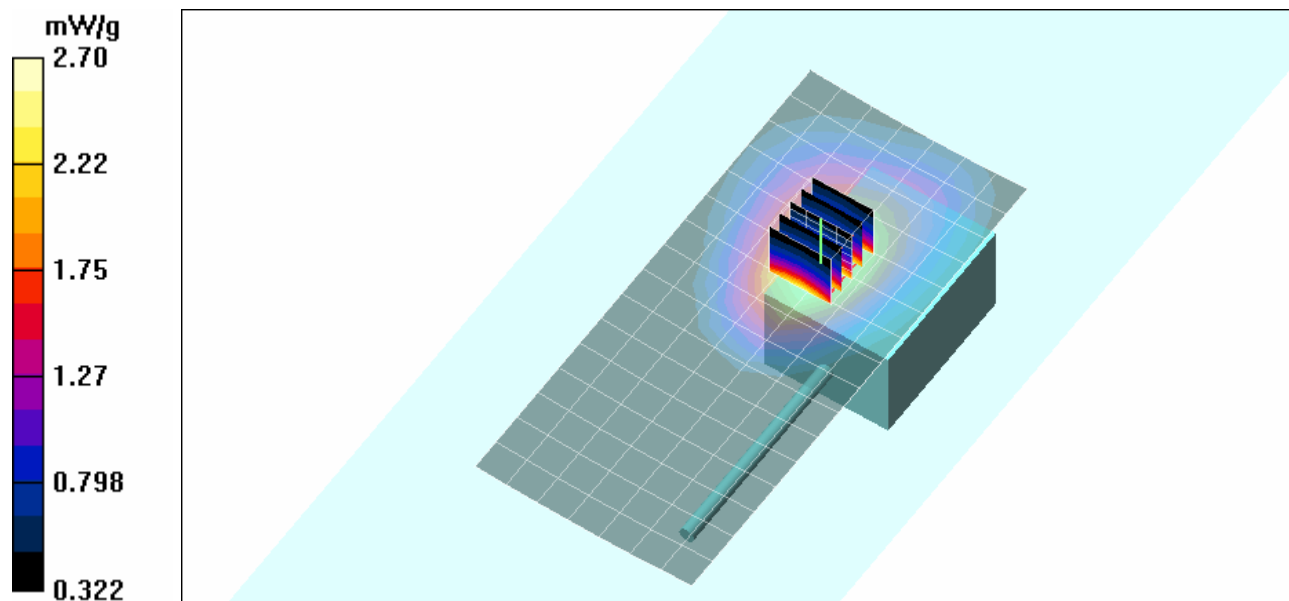
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.8 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.78 mW/g

Maximum value of SAR (measured) = 2.70 mW/g



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

Date Tested: 02/14/2008

Face-Held SAR – Speaker-Mic with Antenna – Li-Ion NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 23.8°C; Fluid Temp: 22.6°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

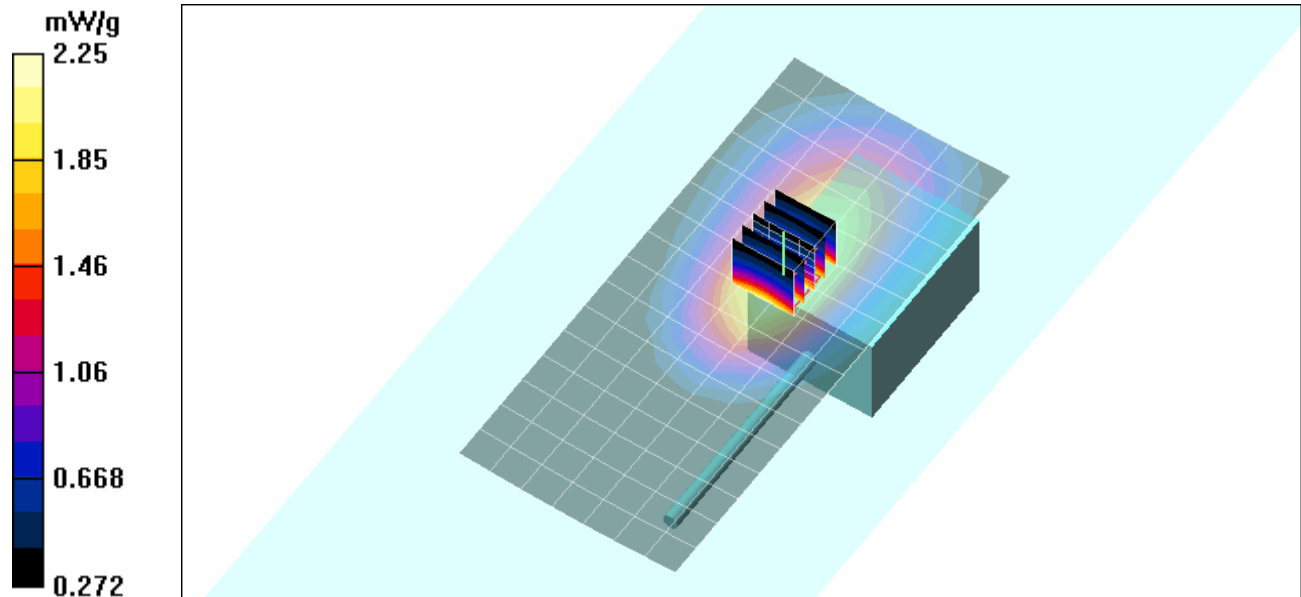
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.1 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 2.11 mW/g; SAR(10 g) = 1.47 mW/g

Maximum value of SAR (measured) = 2.25 mW/g



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

Date Tested: 02/14/2008

Face-Held SAR – Speaker-Mic with Antenna – Li-Ion IS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 23.8°C; Fluid Temp: 22.6°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

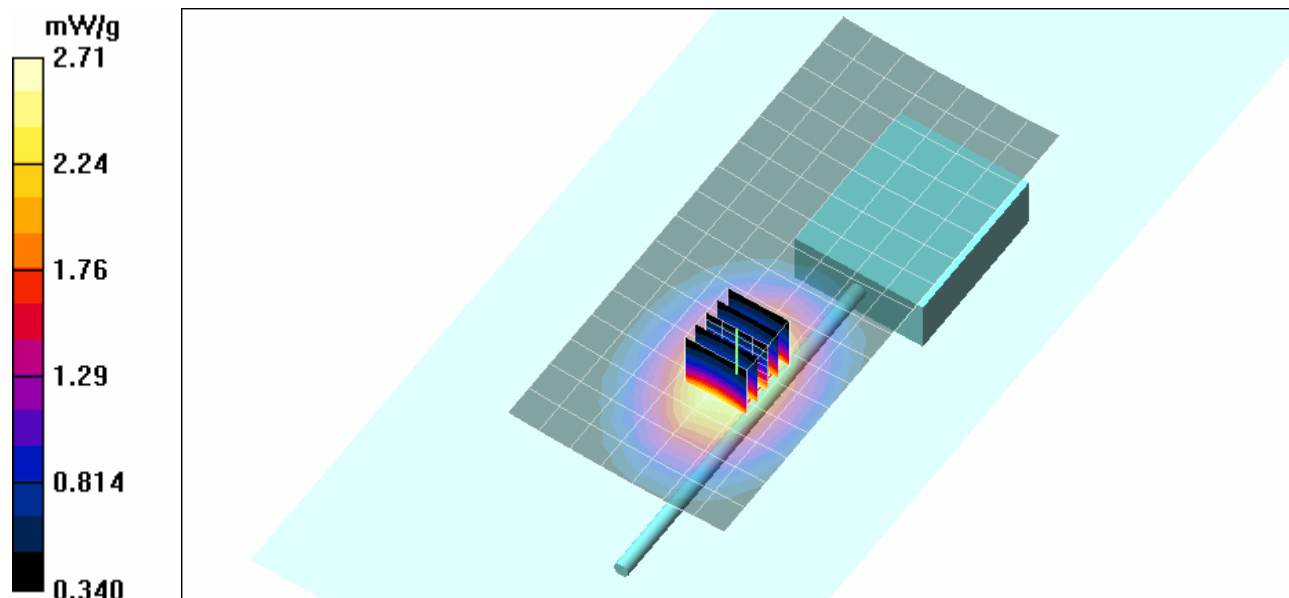
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.3 V/m; Power Drift = 0.175 dB

Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.82 mW/g

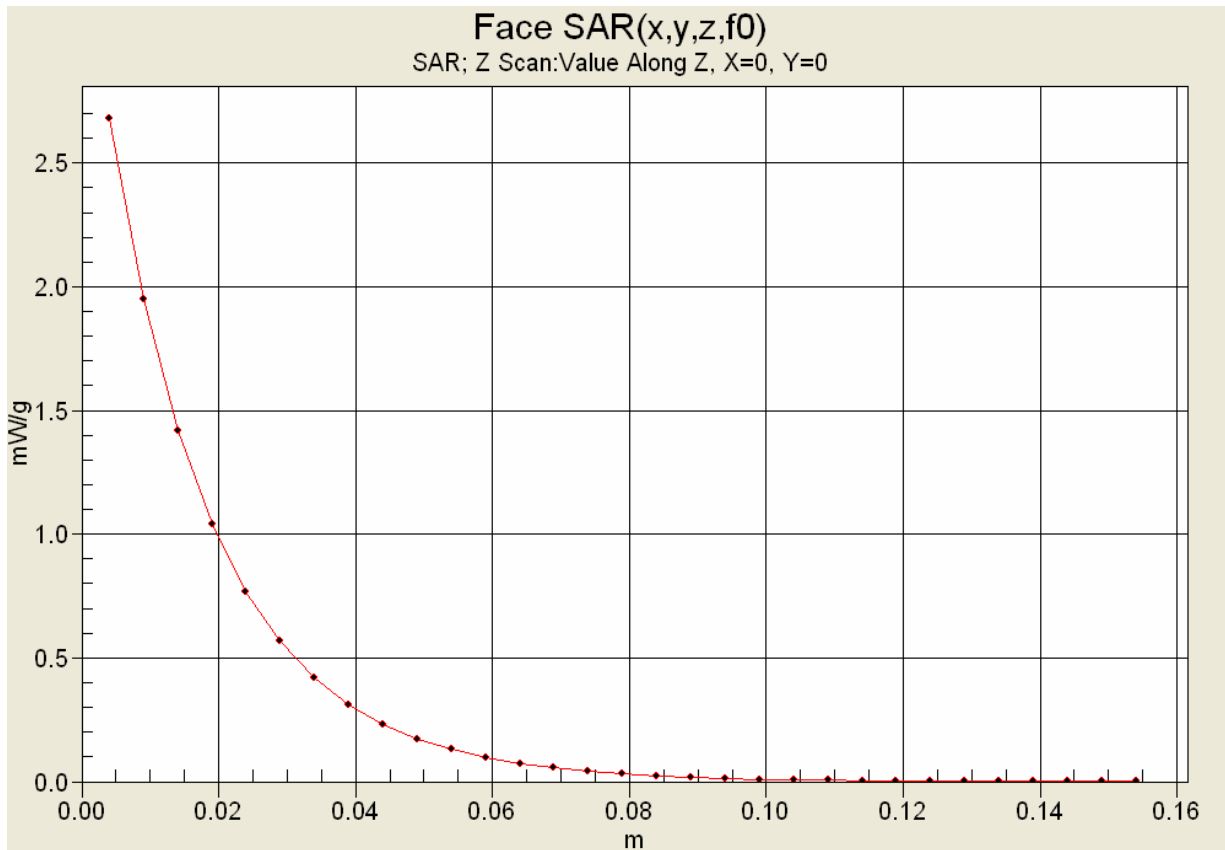
Maximum value of SAR (measured) = 2.71 mW/g



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

Z-Axis Scan



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

Date Tested: 02/14/2008

Face-Held SAR – Speaker-Mic with Antenna – Li-Ion NIS Battery – Band 2 - 868.9875 MHz

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

Ambient Temp: 23.8°C; Fluid Temp: 22.6°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

RF Conducted Power: 3.03 Watts

Frequency: 868.9875 MHz; Duty Cycle: 1:1

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

Medium: HSL835 Medium parameters used: $f = 868.9875 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1387; ConvF(6.25, 6.25, 6.25); 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 SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

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

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

Face-Held SAR – 2.5 cm Spacing from Front of DUT to Planar Phantom

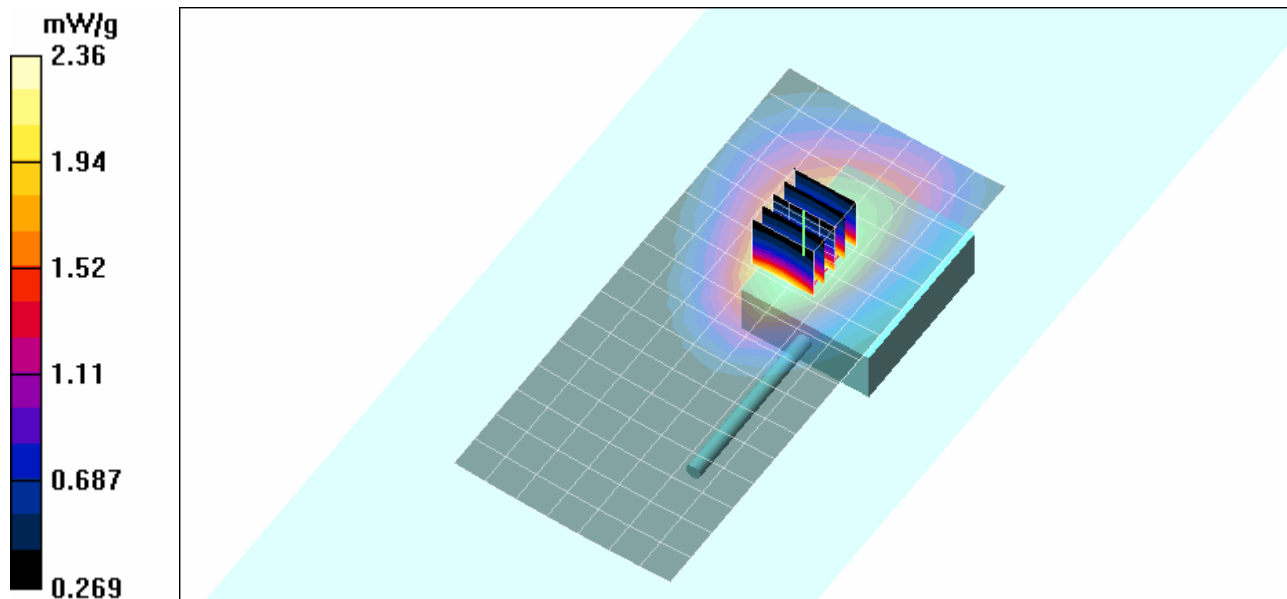
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.0 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 2.23 mW/g; SAR(10 g) = 1.57 mW/g

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



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