

M/A-COM INC. FCC ID: OWDTR-0016-E

Small Planar Phantom; Planar Section; Position: (270°,180°)
Probe: ET3DV6 - SN1590; ConvF(7.90,7.90,7.90); Crest factor: 1.0

450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 9.67 mW/g, SAR (10g): 6.82 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiCd Battery - Non-Intrinsically Safe (BKB191210/3)

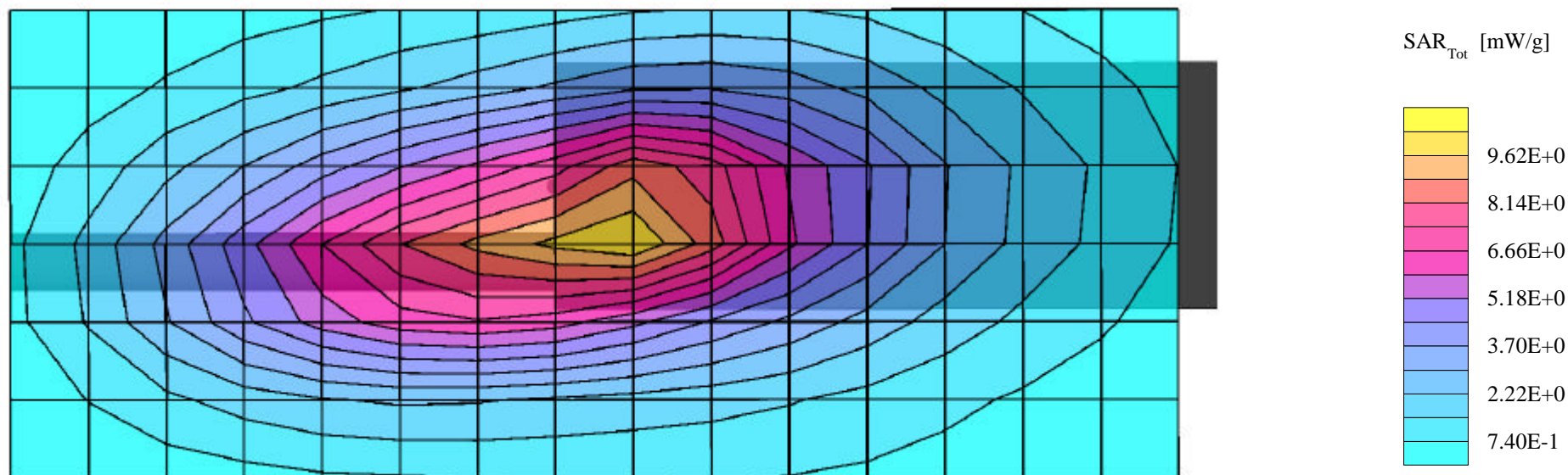
Continuous Wave Mode

Mid Channel [403.000 MHz]

Conducted Power: 4.33 Watts

Ambient Temp. 23.3°C; Fluid Temp. 21.8°C

Date Tested: April 21, 2003



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Small Planar Phantom; Planar Section; Position: (270°,180°)
Probe: ET3DV6 - SN1590; ConvF(7.90,7.90,7.90); Crest factor: 1.0

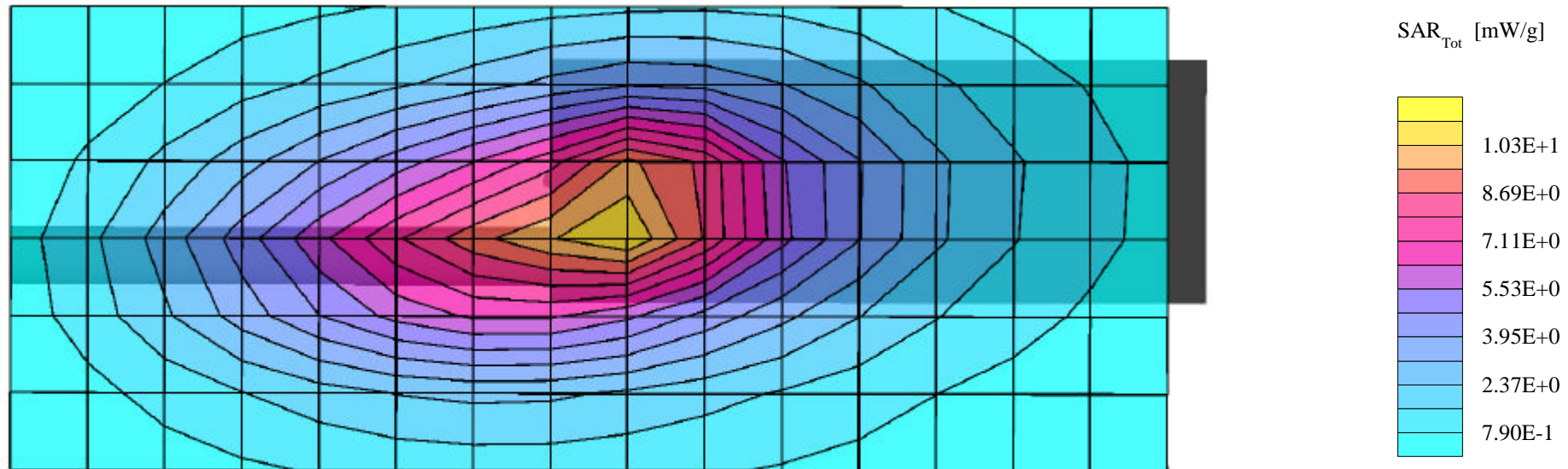
450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 10.4 mW/g, SAR (10g): 7.15 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)
1.1cm Belt-Clip Separation Distance to Planar Phantom
P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)
with Speaker-Microphone (KRY1011617/183R1A)
Quarter-Wave Whip Antenna (KRE1011223/10)
NiMH Battery - Non-Intrinsically Safe (BKB191210/4)
Continuous Wave Mode
Mid Channel [403.000 MHz]
Conducted Power: 4.37 Watts
Ambient Temp. 23.3°C; Fluid Temp. 21.8°C
Date Tested: April 21, 2003



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Small Planar Phantom

Probe: ET3DV6 - SN1590; ConvF(7.90,7.90,7.90); Crest factor: 1.0

450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Z-Axis Extrapolation at Peak SAR Location

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiMH Battery - Non-Intrinsically Safe (BKB191210/4)

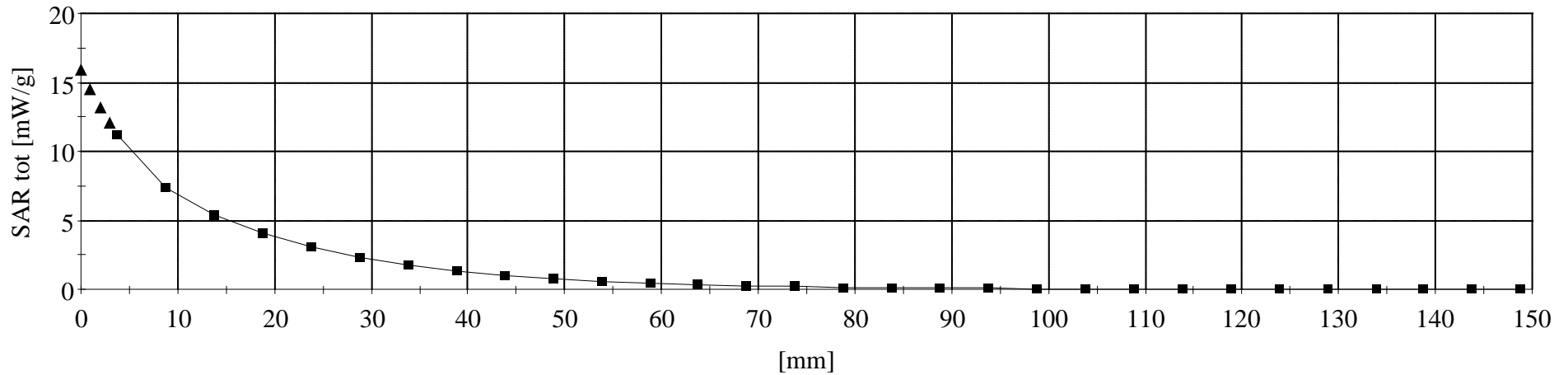
Continuous Wave Mode

Mid Channel [403.000 MHz]

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Time sweep

SAR VERSUS TIME (30 minutes)

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiMH Battery - Non-Intrinsically Safe (BKB191210/4)

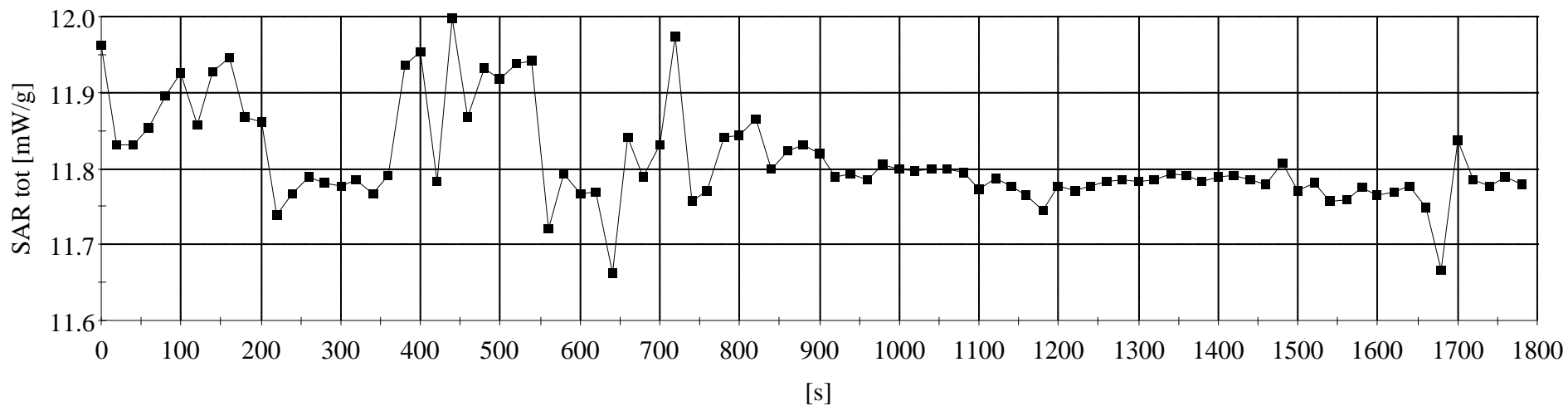
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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 3.05 mW/g, SAR (10g): 2.11 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiMH Battery - Non-Intrinsically Safe (BKB191210/4)

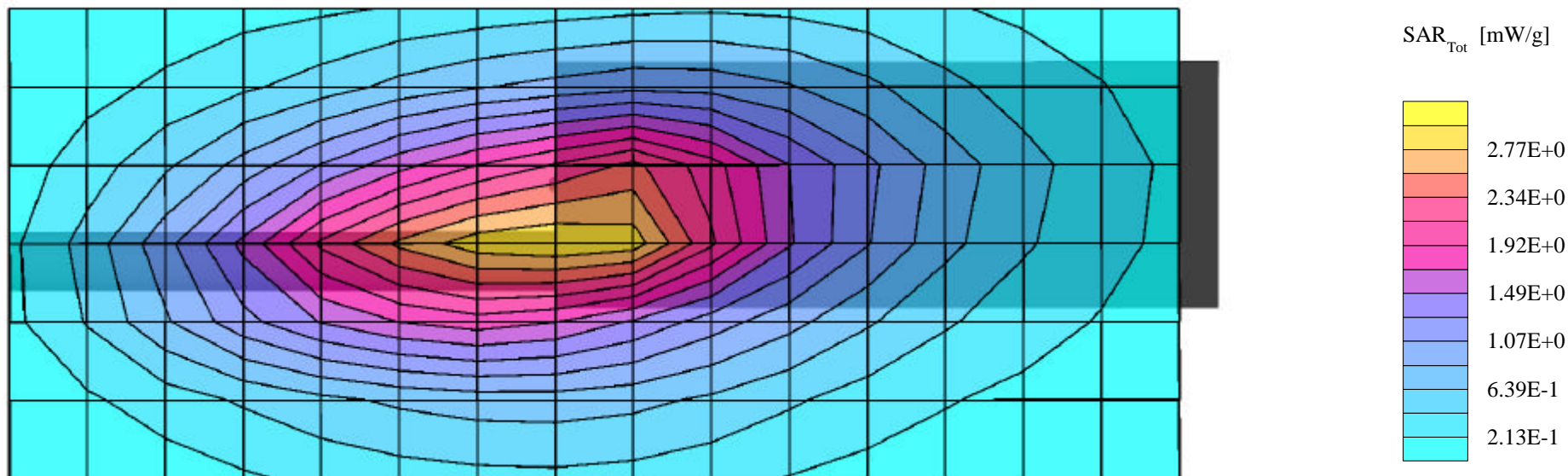
Continuous Wave Mode

Low Channel [378.000 MHz]

Conducted Power: 4.32 Watts

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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 4.82 mW/g, SAR (10g): 3.31 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiMH Battery - Non-Intrinsically Safe (BKB191210/4)

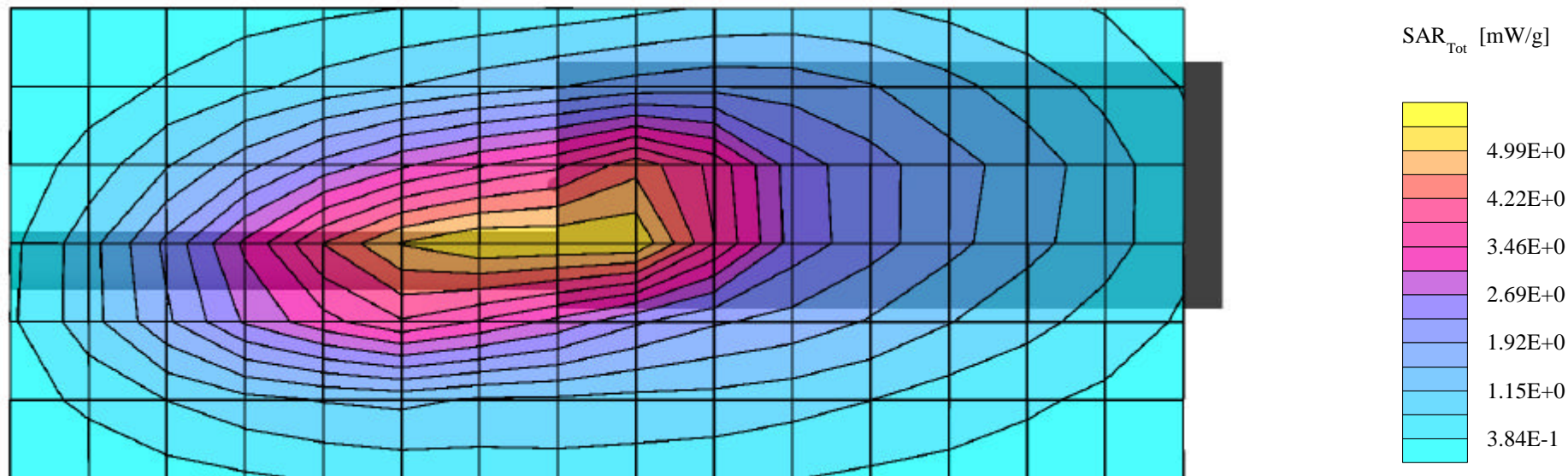
Continuous Wave Mode

High Channel [430.000 MHz]

Conducted Power: 4.31 Watts

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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 10.1 mW/g, SAR (10g): 7.02 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiCd Battery - Intrinsically Safe (BKB191210/5)

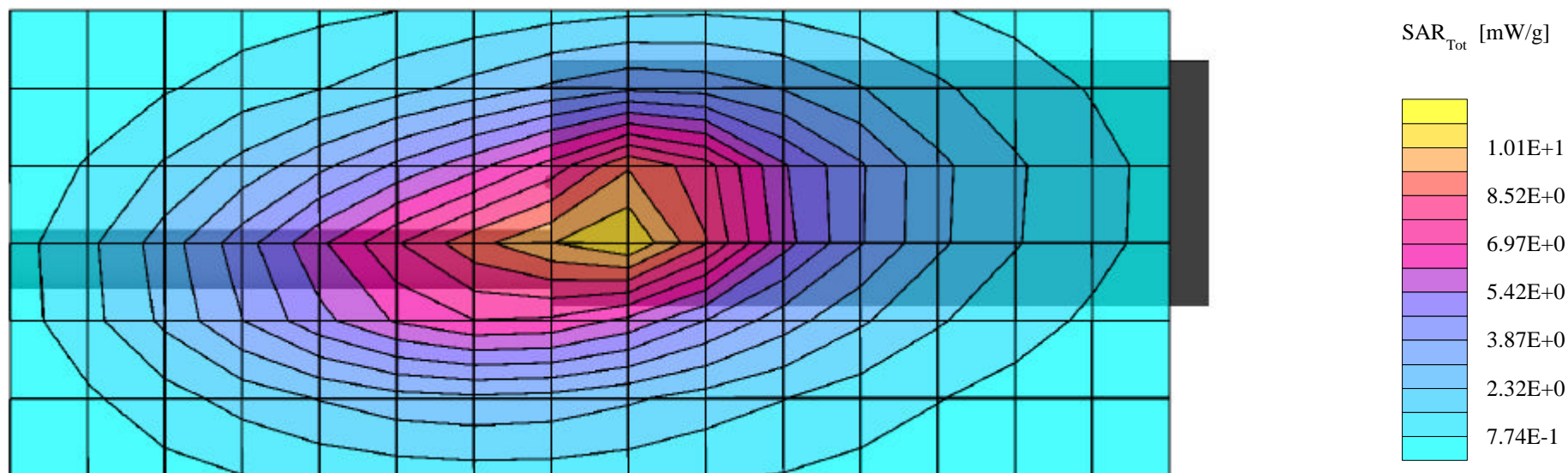
Continuous Wave Mode

Mid Channel [403.000 MHz]

Conducted Power: 4.34 Watts

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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 10.3 mW/g, SAR (10g): 7.11 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiMH Battery - Intrinsically Safe (BKB191210/6)

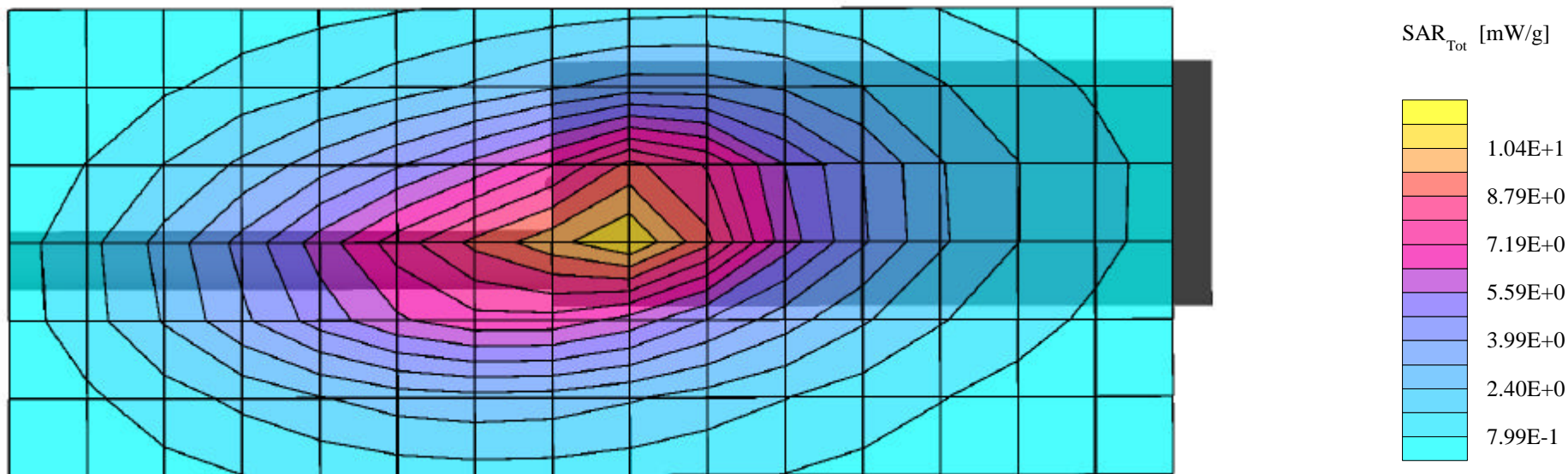
Continuous Wave Mode

Mid Channel [403.000 MHz]

Conducted Power: 4.36 Watts

Ambient Temp. 23.3°C; Fluid Temp. 21.8°C

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Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 9.28 mW/g, SAR (10g): 6.55 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR02)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiCd Battery - Non-Intrinsically Safe (BKB191210/3)

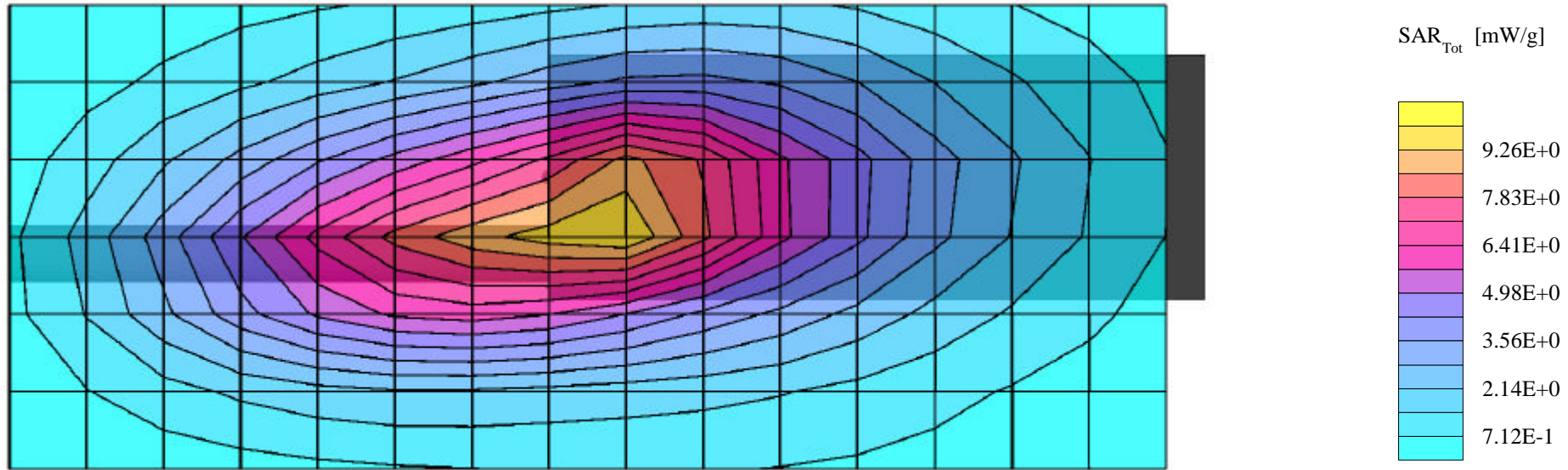
Continuous Wave Mode

Mid Channel [403.000 MHz]

Conducted Power: 4.33 Watts

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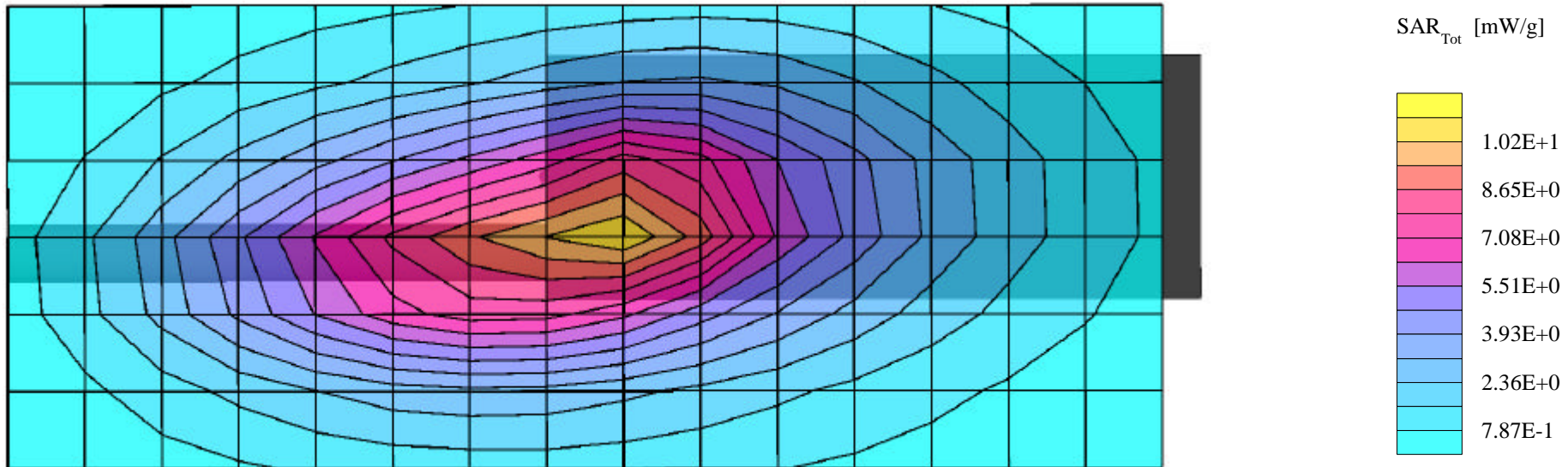
450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 10.1 mW/g, SAR (10g): 6.99 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)
1.1cm Belt-Clip Separation Distance to Planar Phantom
P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR02)
with Speaker-Microphone (KRY1011617/183R1A)
Quarter-Wave Whip Antenna (KRE1011223/10)
NiMH Battery - Non-Intrinsically Safe (BKB191210/4)
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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 9.91 mW/g, SAR (10g): 6.86 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR02)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiCd Battery - Intrinsically Safe (BKB191210/5)

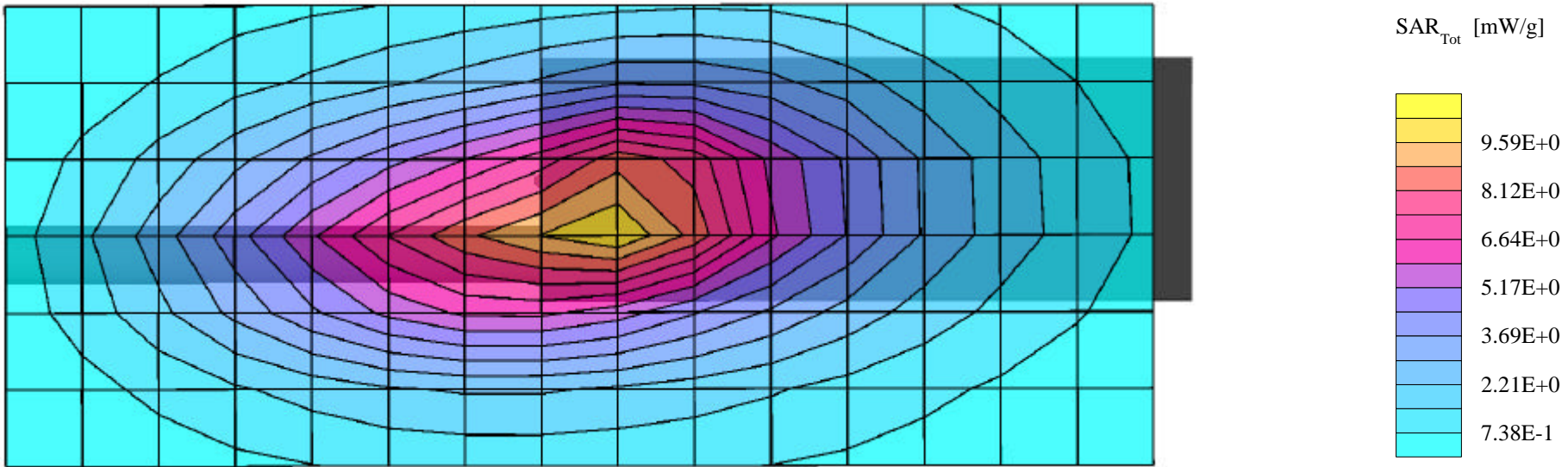
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Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 10.1 mW/g, SAR (10g): 6.99 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR02)

with Speaker-Microphone (KRY1011617/183R1A)

Quarter-Wave Whip Antenna (KRE1011223/10)

NiMH Battery - Intrinsically Safe (BKB191210/6)

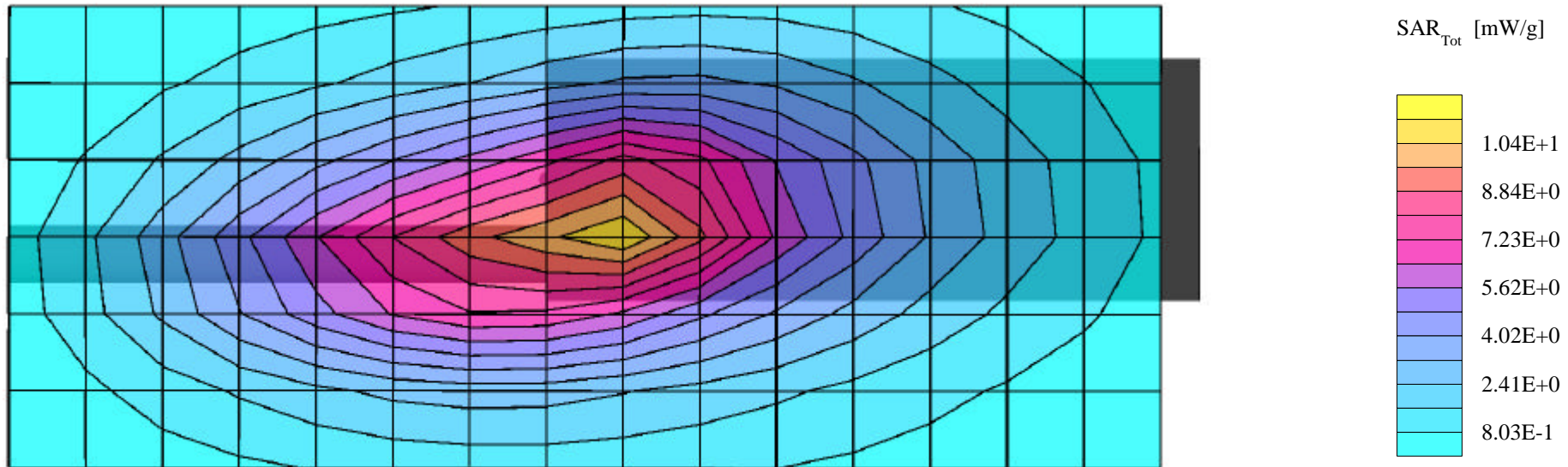
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Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 7.24 mW/g, SAR (10g): 5.05 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Helical Coil Antenna (KRE1011219/10)

NiCd Battery - Non-Intrinsically Safe (BKB191210/3)

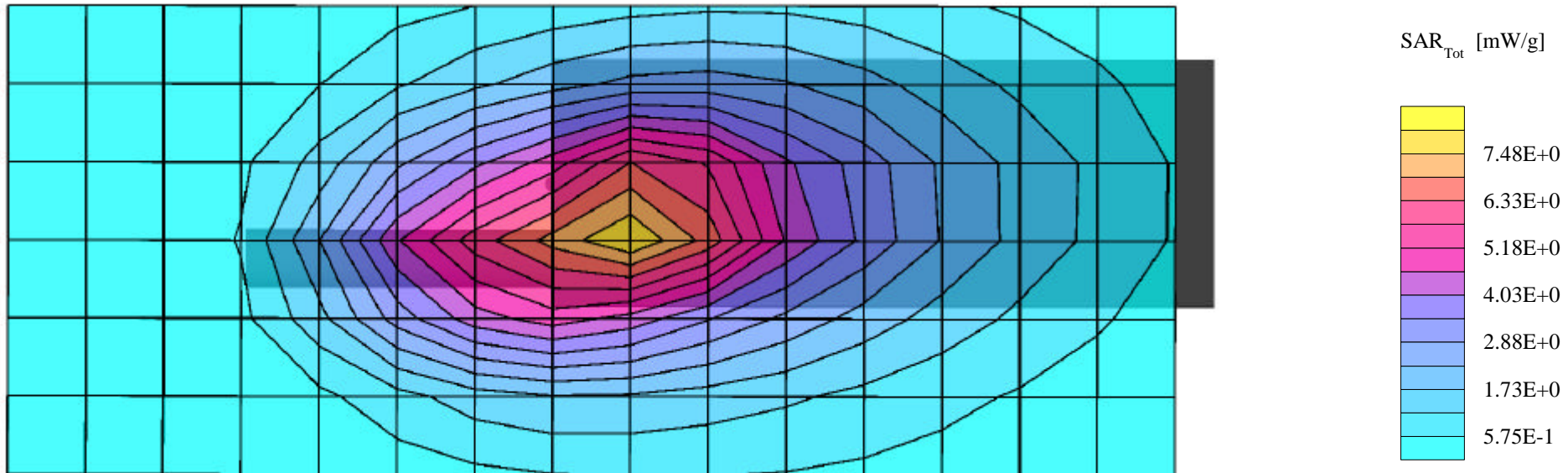
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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 7.10 mW/g, SAR (10g): 4.92 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Helical Coil Antenna (KRE1011219/10)

NiMH Battery - Non-Intrinsically Safe (BKB191210/4)

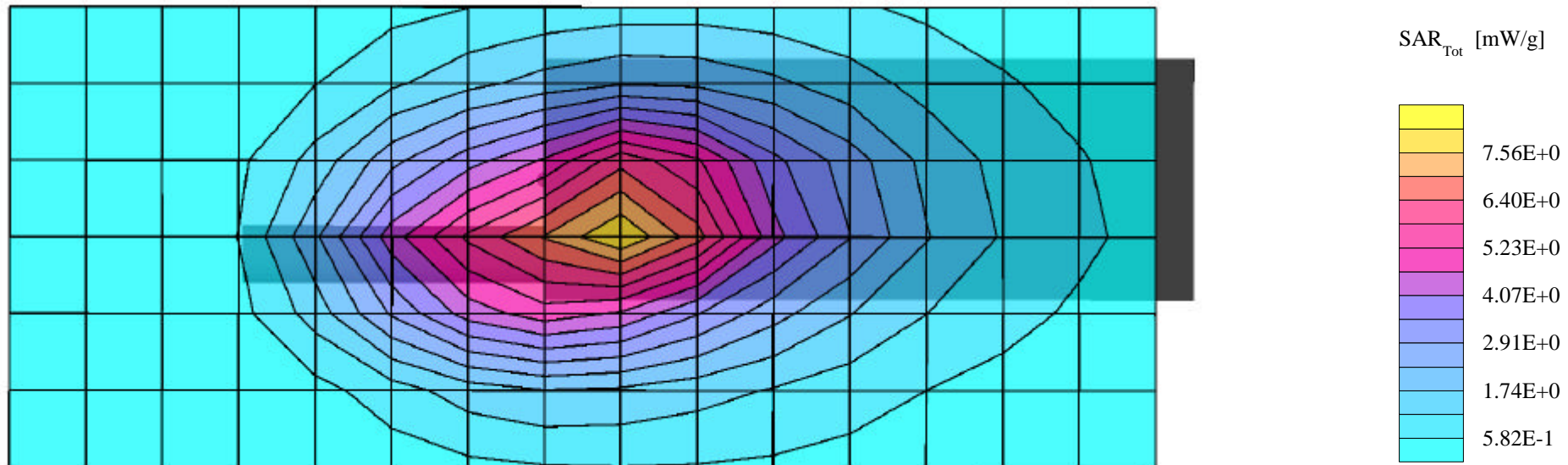
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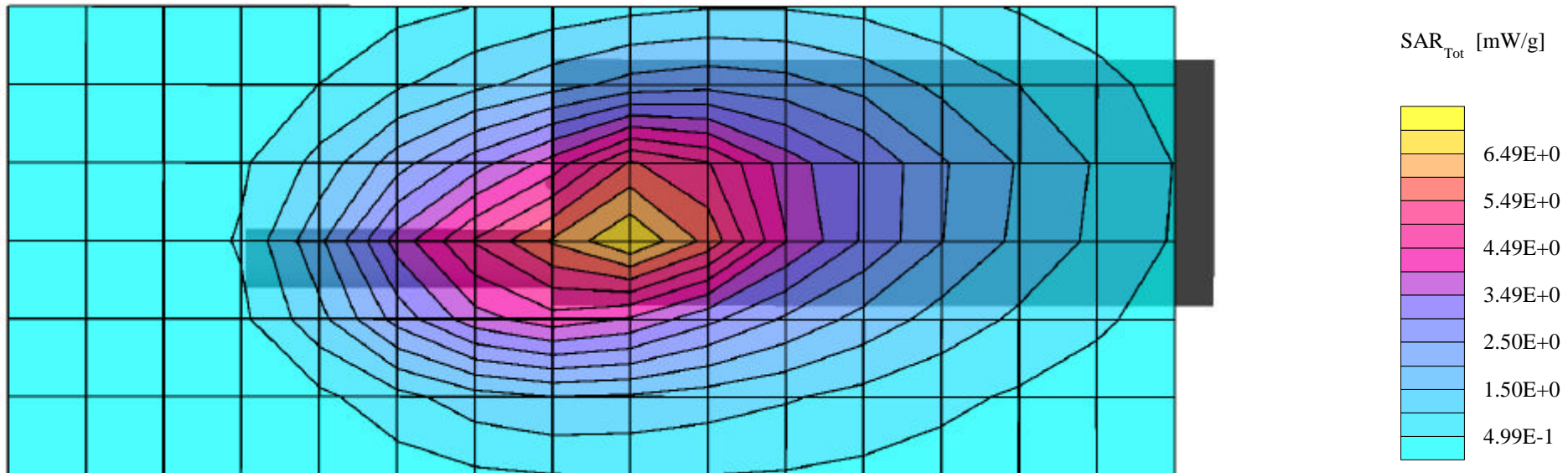
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Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 6.17 mW/g, SAR (10g): 4.29 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)
1.1cm Belt-Clip Separation Distance to Planar Phantom
P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)
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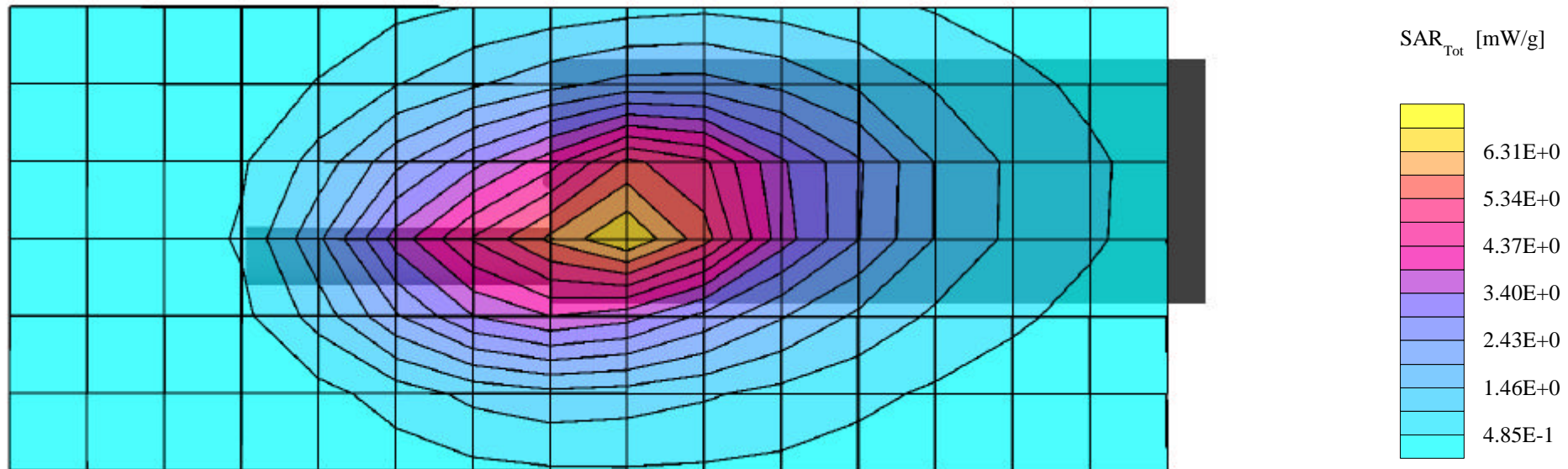
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Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 5.20 mW/g, SAR (10g): 3.63 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)
1.1cm Belt-Clip Separation Distance to Planar Phantom
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Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 2.25 mW/g, SAR (10g): 1.57 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Helical Coil Antenna (KRE1011219/9)

NiCd Battery - Non-Intrinsically Safe (BKB191210/3)

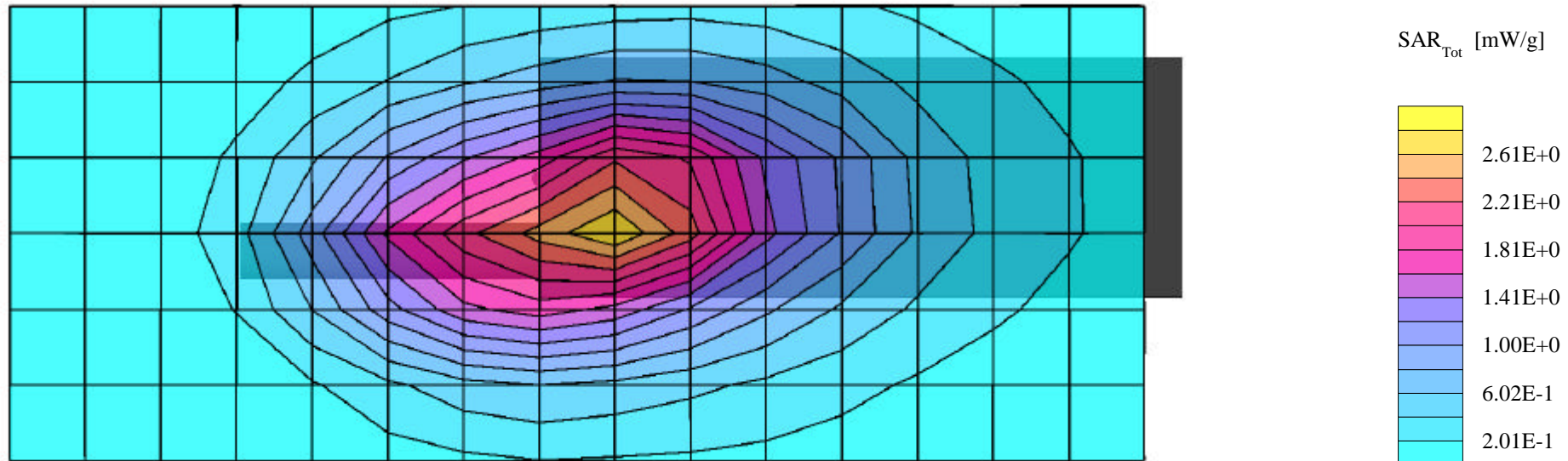
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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 2.24 mW/g, SAR (10g): 1.56 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

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NiMH Battery - Non-Intrinsically Safe (BKB191210/4)

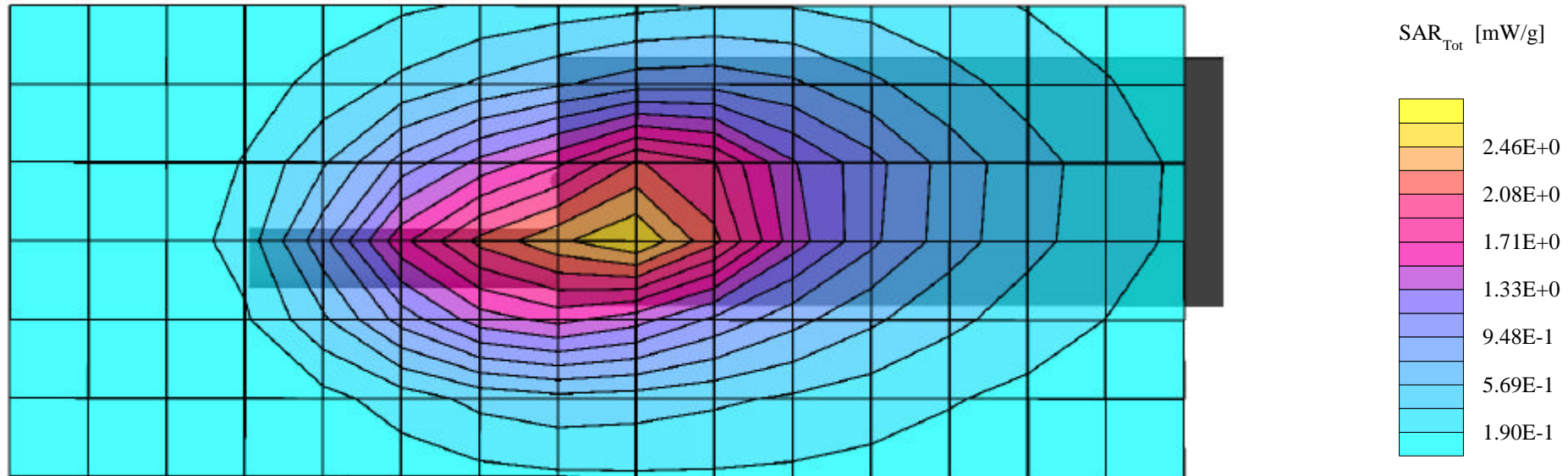
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450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 2.49 mW/g, SAR (10g): 1.72 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Helical Coil Antenna (KRE1011219/9)

NiCd Battery - Intrinsically Safe (BKB191210/5)

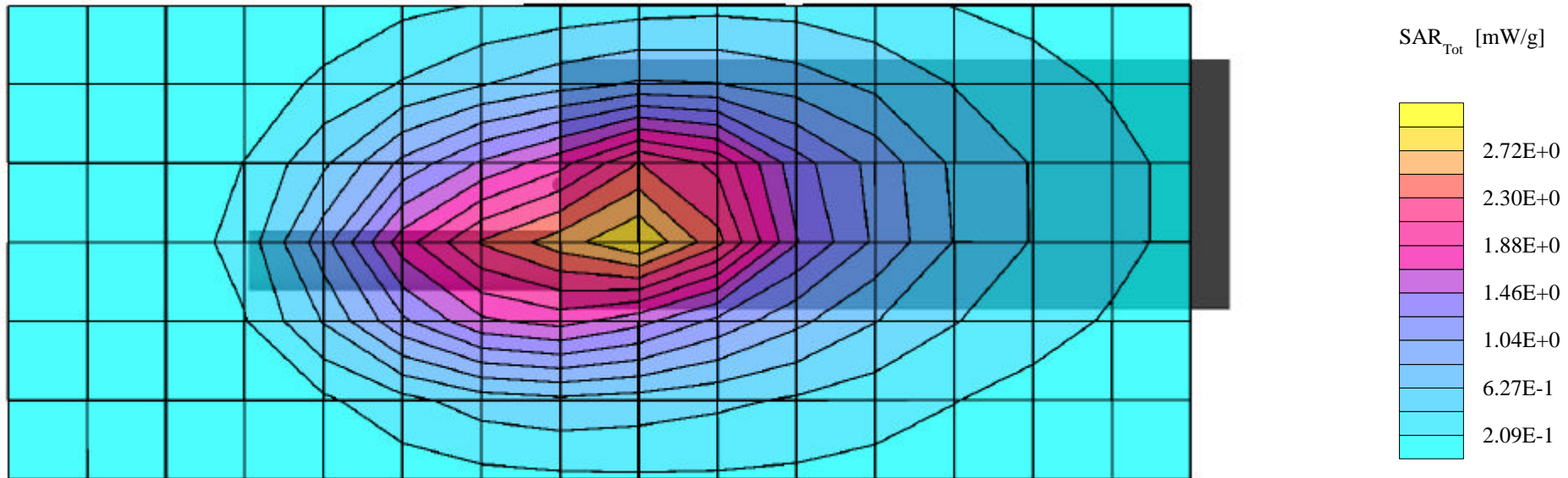
Continuous Wave Mode

Mid Channel [403.000 MHz]

Conducted Power: 4.31 Watts

Ambient Temp. 23.3°C; Fluid Temp. 21.8°C

Date Tested: April 21, 2003



M/A-COM INC. FCC ID: OWDTR-0016-E

Small Planar Phantom; Planar Section; Position: (270°,180°)
Probe: ET3DV6 - SN1590; ConvF(7.90,7.90,7.90); Crest factor: 1.0

450 MHz Muscle: $\sigma = 0.91$ mho/m $\epsilon_r = 57.3$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 2.10 mW/g, SAR (10g): 1.47 mW/g

Body-Worn SAR with Metal Belt-Clip (KRY1011647/1)

1.1cm Belt-Clip Separation Distance to Planar Phantom

P7100(IP) Portable UHF PTT Radio Transceiver (T1-LSAR01)

with Speaker-Microphone (KRY1011617/183R1A)

Helical Coil Antenna (KRE1011219/9)

NiMH Battery - Intrinsically Safe (BKB191210/6)

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