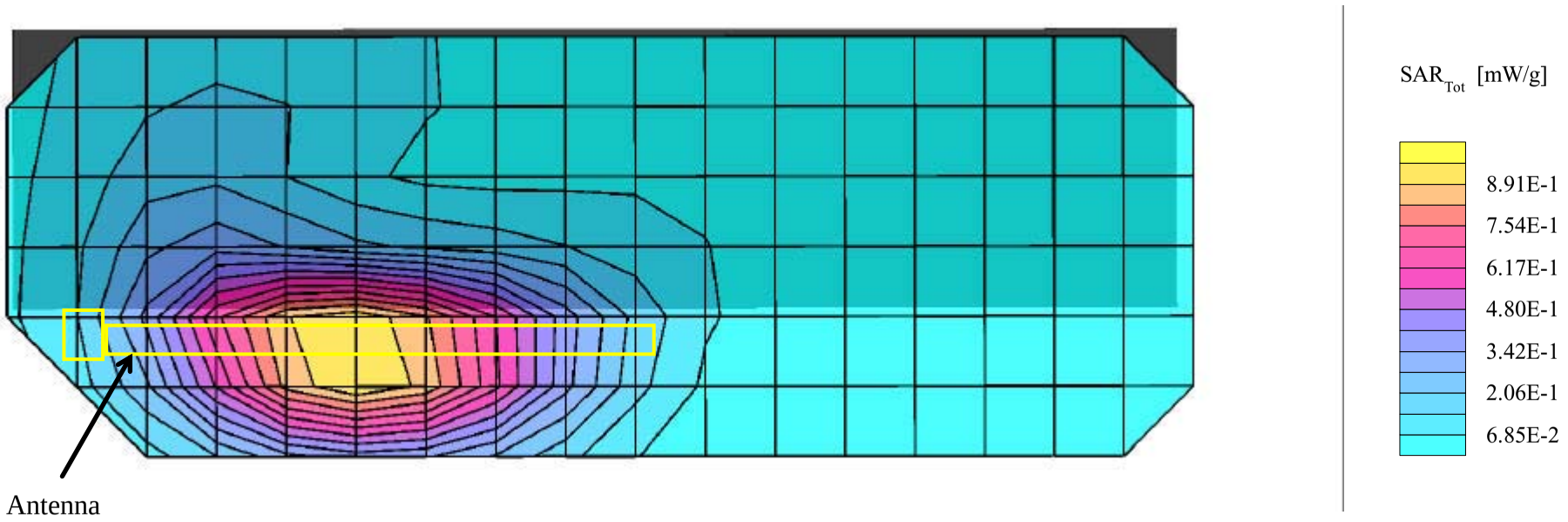
APPENDIX A - SAR MEASUREMENT DATA

Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 1.02 mW/g, SAR (10g): 0.662 mW/g

Body SAR - Back of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
1.0 cm Separation Distance from Back of LCD Display to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 991 [824.04 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

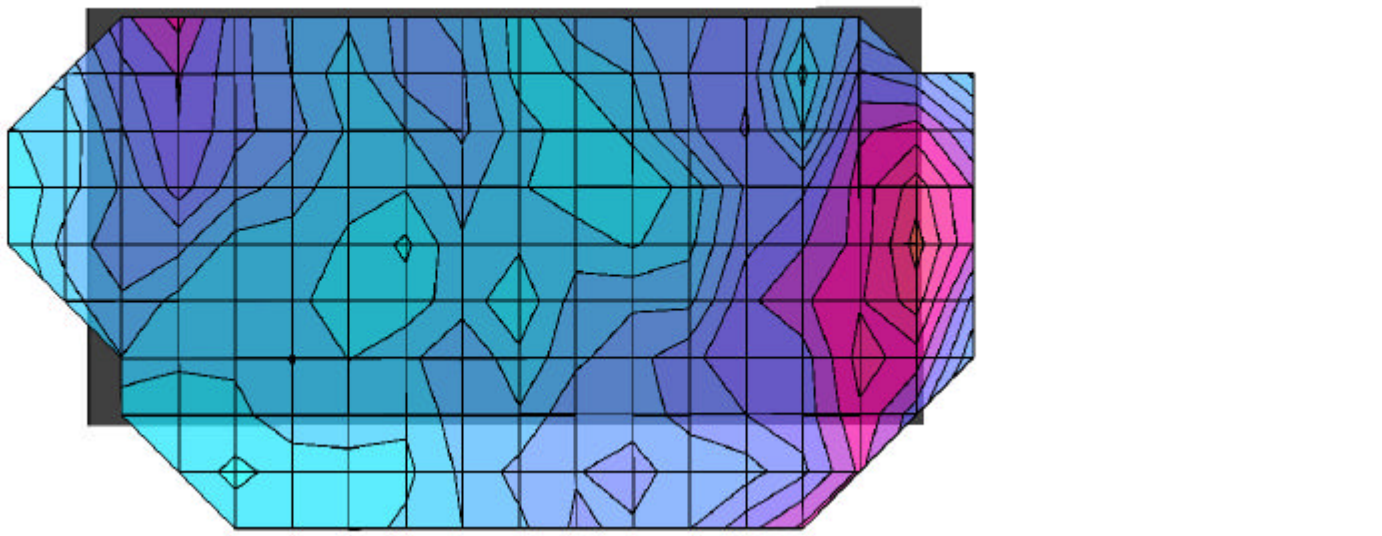


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Body SAR - Back of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
1.0 cm Separation Distance from Back of LCD Display to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 991 [824.04 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

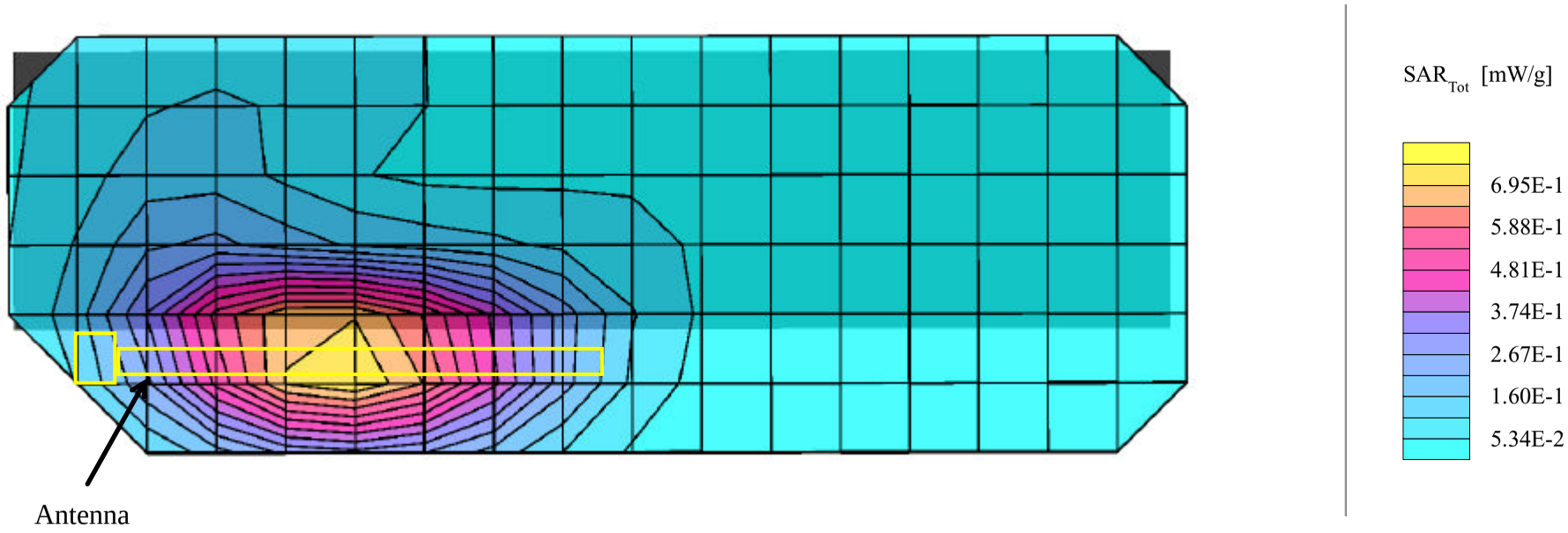
Coarse scan to show Left Half of LCD Display



Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.778 mW/g, SAR (10g): 0.508 mW/g

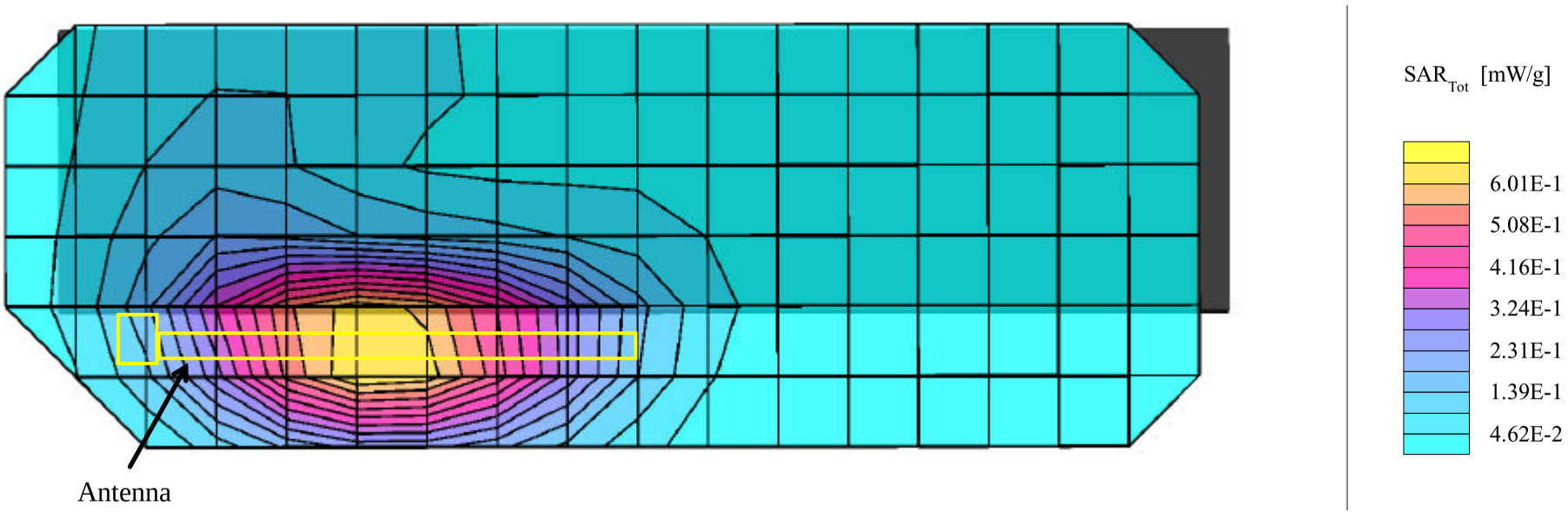
Body SAR - Back of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
1.0 cm Separation Distance from Back of LCD Display to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003



Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: σ = 0.97 mho/m ε_r = 54.2 ρ = 1.00 g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.684 mW/g, SAR (10g): 0.443 mW/g

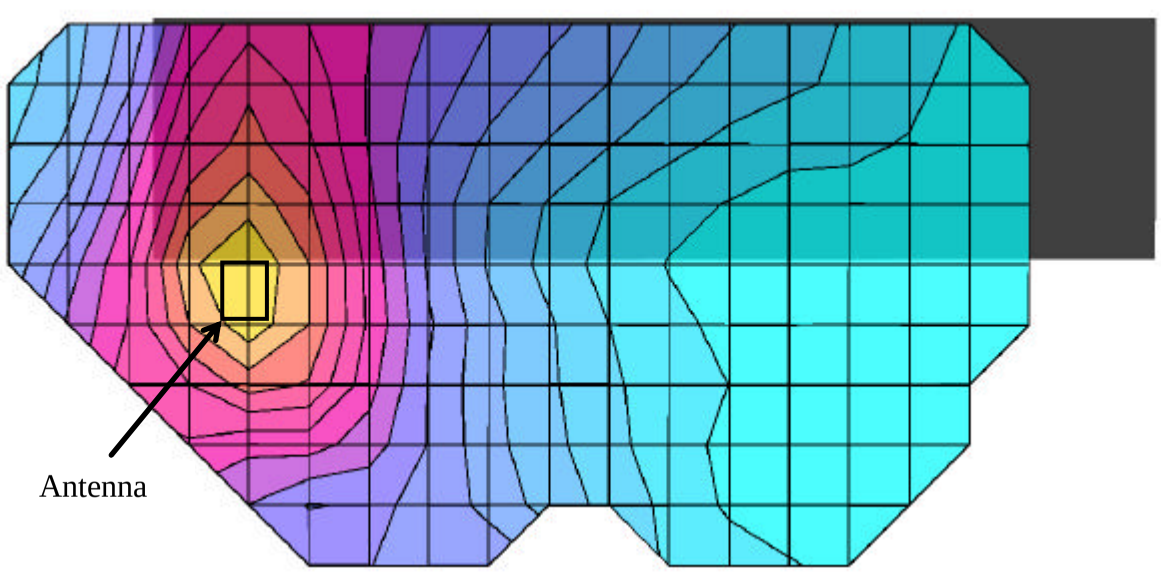
Body SAR - Back of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
1.0 cm Separation Distance from Back of LCD Display to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 799 [848.97 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

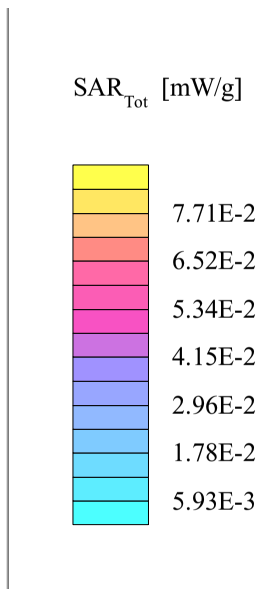


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.0807 mW/g, SAR (10g): 0.0559 mW/g

Body SAR - Back of LCD Display (Closed Position)
Antenna Perpendicular to Planar Phantom (180°)
1.0 cm Separation Distance from Back of LCD Display to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

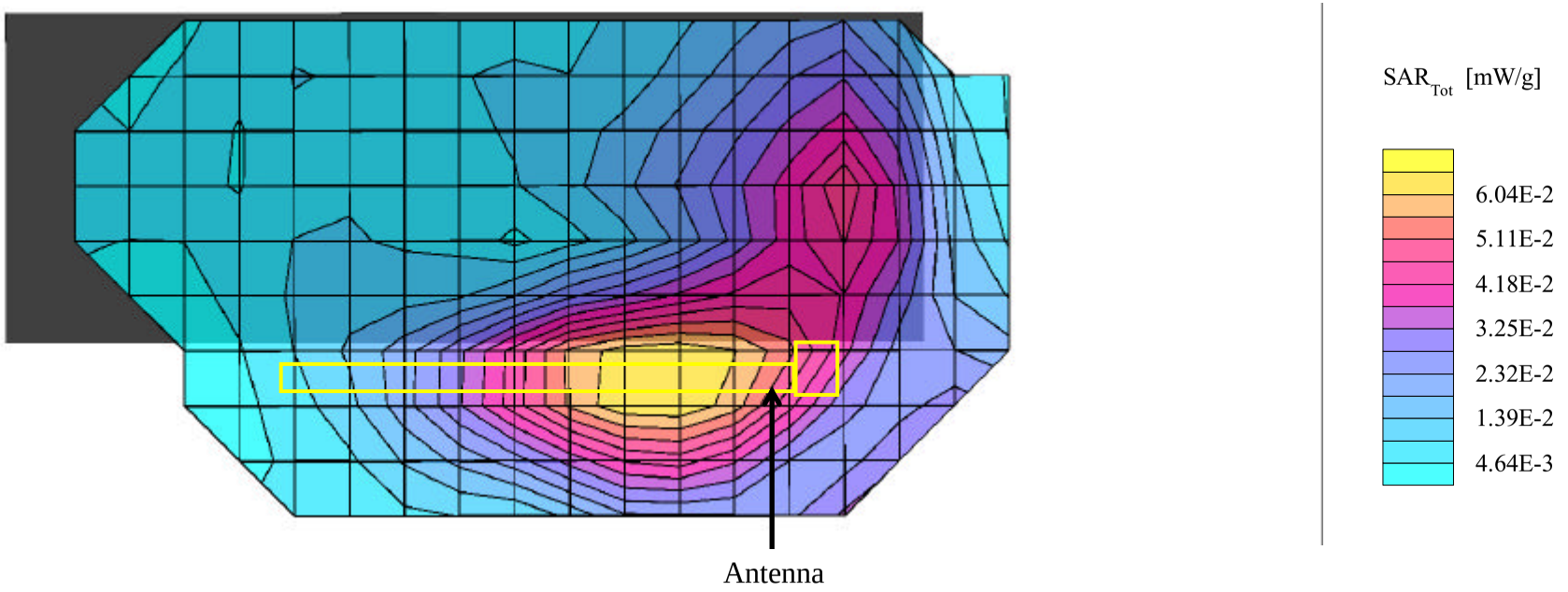




Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.0634 mW/g, SAR (10g): 0.0461 mW/g

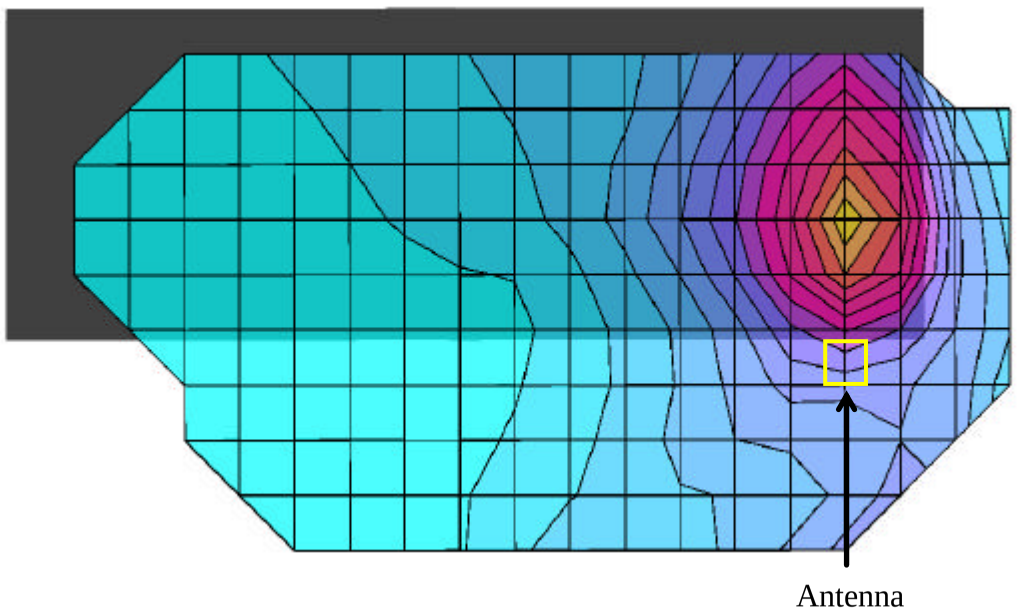
Body SAR - Bottom of Laptop PC (LCD Display Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

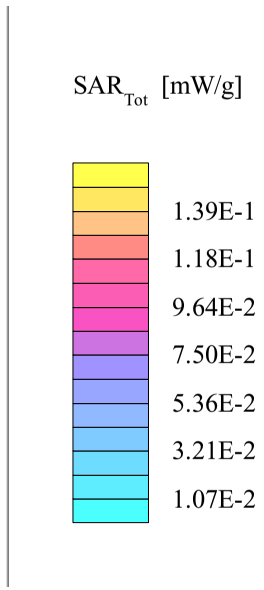


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.138 mW/g, SAR (10g): 0.0900 mW/g

Body SAR - Bottom of Laptop PC (LCD Display Closed Position)
Antenna Perpendicular to Planar Phantom (Extended Position)
0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003



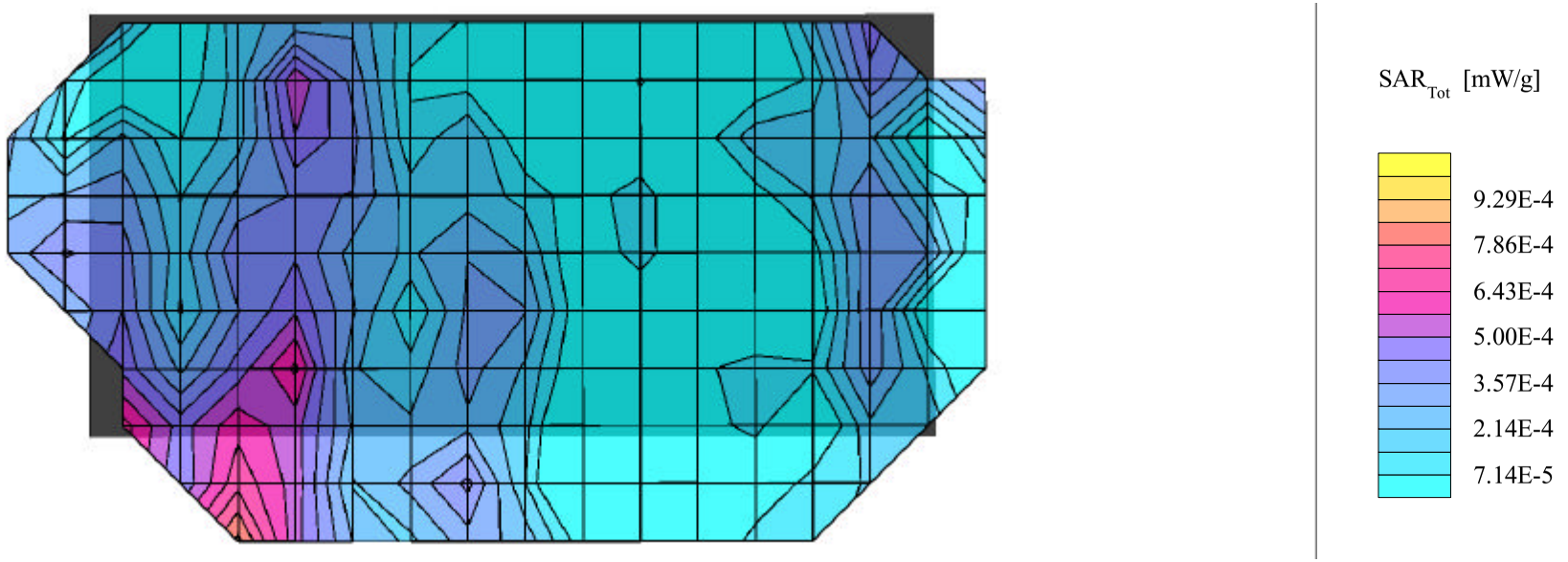


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: σ = 0.97 mho/m ε_r = 54.2 ρ = 1.00 g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Body SAR - Bottom of Laptop PC (LCD Display Closed Position)
Antenna Perpendicular to Planar Phantom (Extended Position)
0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

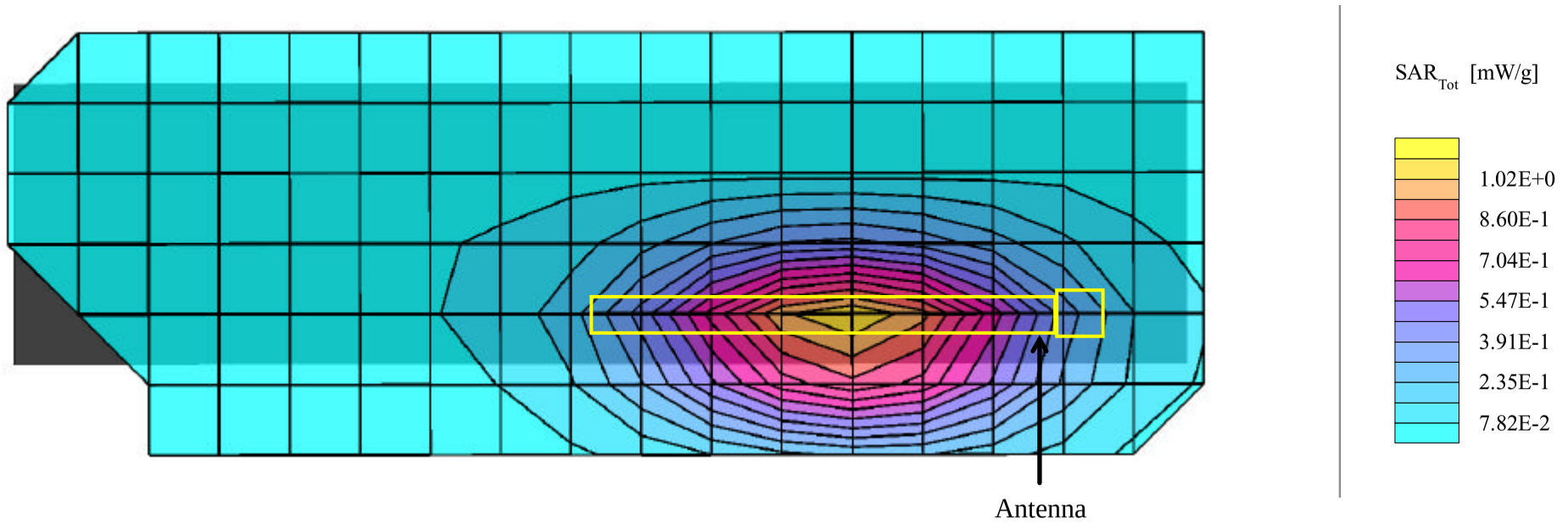
Coarse scan to show Left Half of Bottom Side



Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 1.06 mW/g, SAR (10g): 0.692 mW/g

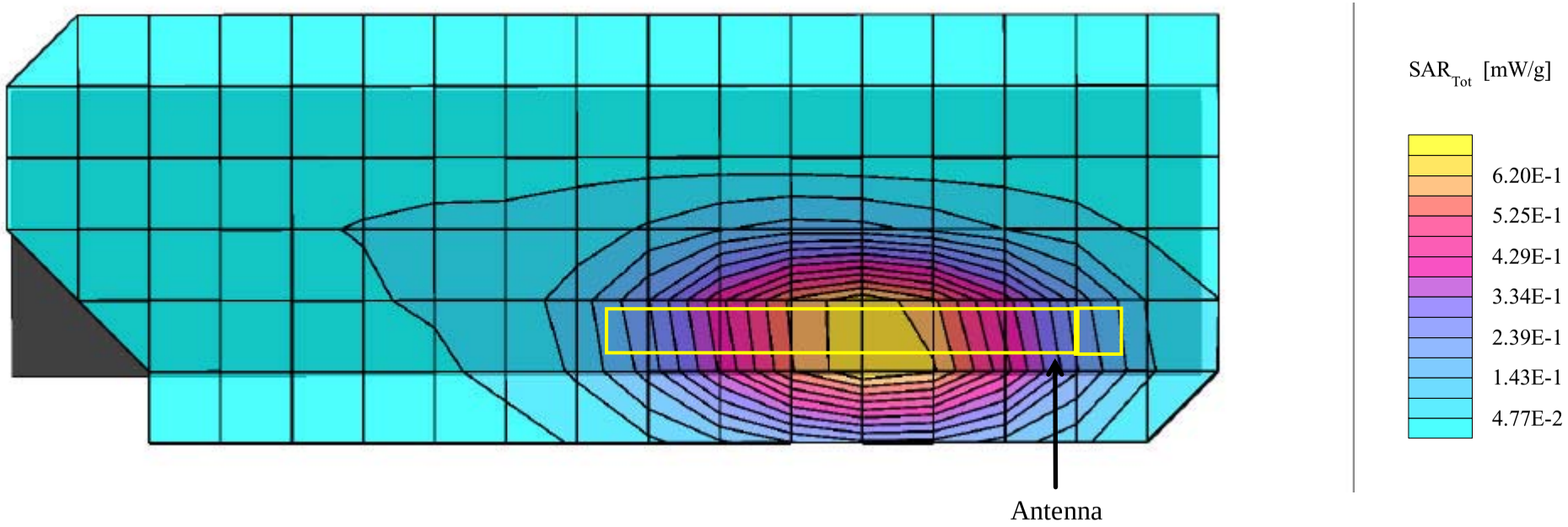
Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 991 [824.04 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003



Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.841 mW/g, SAR (10g): 0.546 mW/g

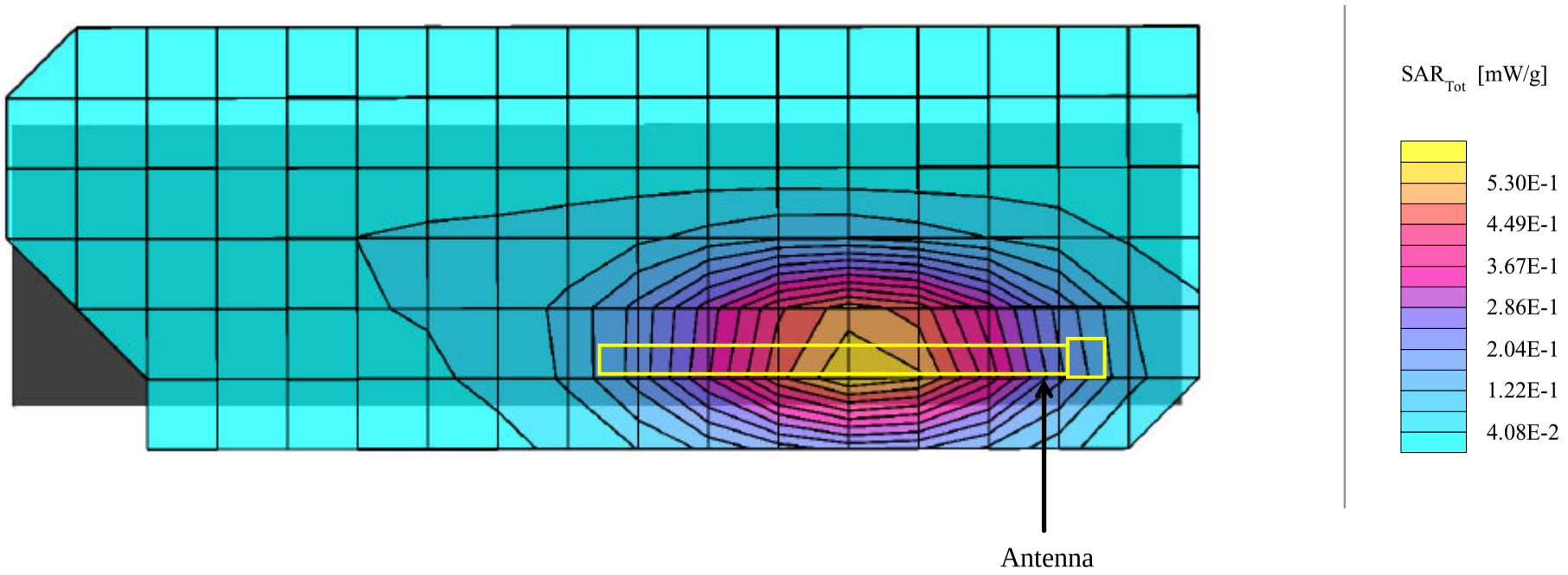
Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003



Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.756 mW/g, SAR (10g): 0.492 mW/g

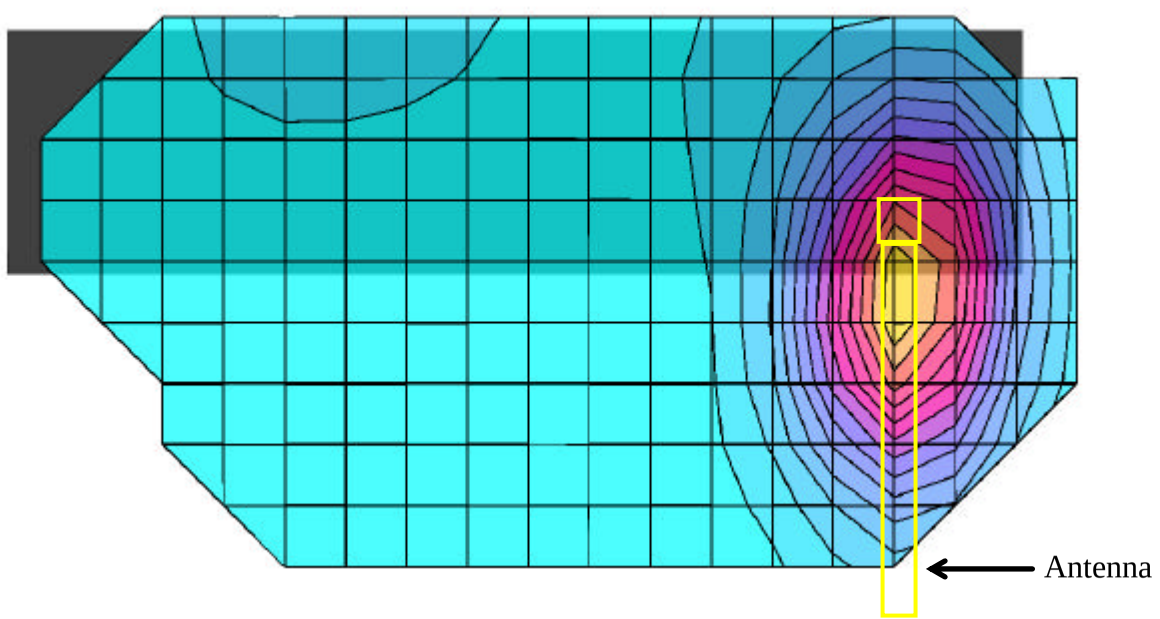
Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Stowed Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 799 [848.97 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

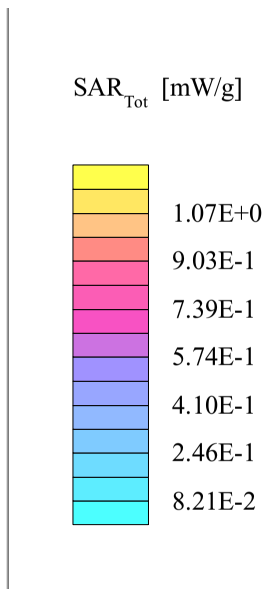


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 1.11 mW/g, SAR (10g): 0.751 mW/g

Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Extended Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 991 [824.04 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003

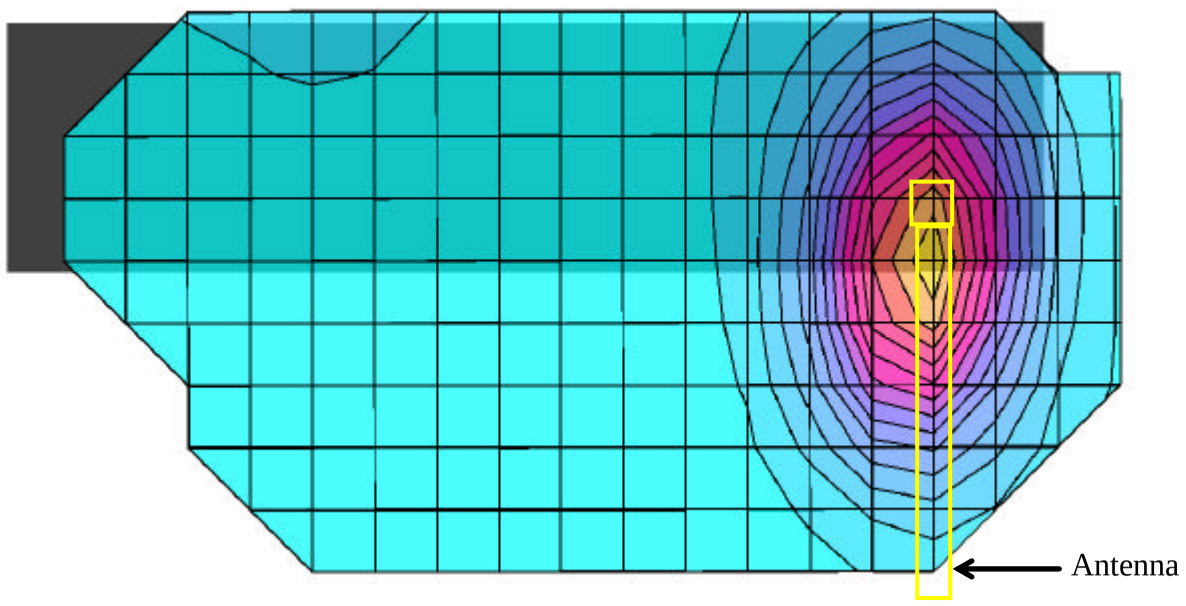


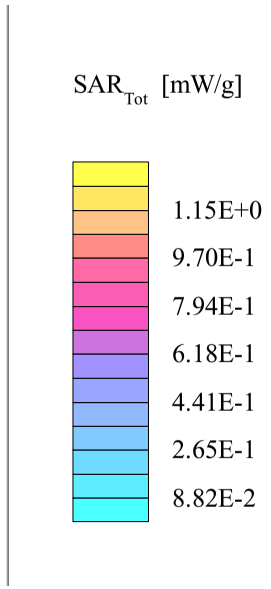


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: σ = 0.97 mho/m ε_r = 54.2 ρ = 1.00 g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 1.17 mW/g, SAR (10g): 0.785 mW/g

Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Extended Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003



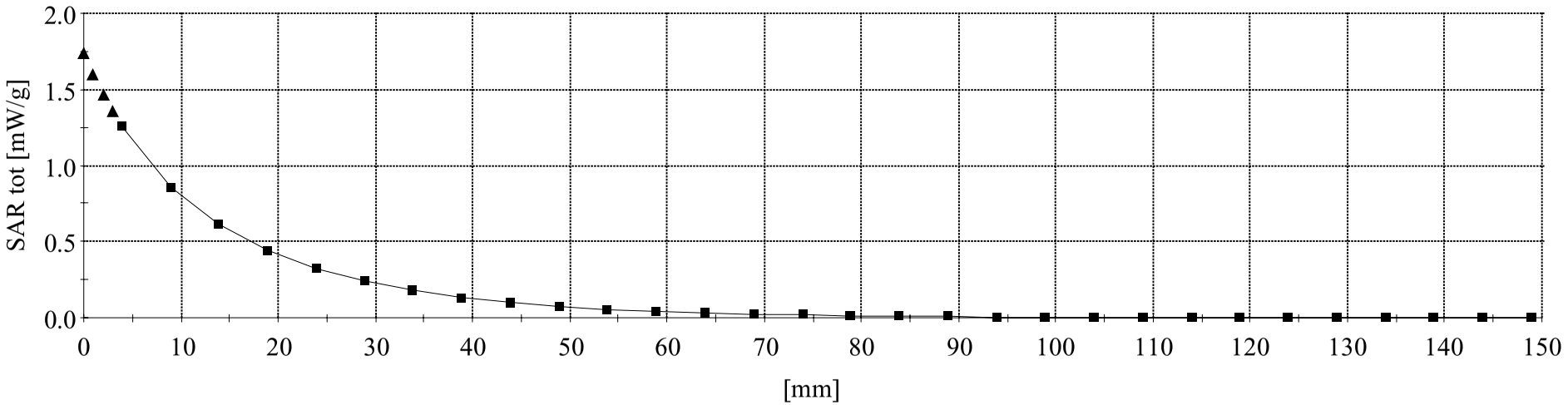


Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Section
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0;
835 MHz Muscle: σ = 0.97 mho/m ε_r = 54.2 ρ = 1.00 g/cm^3

Z-Axis Extrapolation at Peak SAR Location

Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Extended Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 383 [836.49 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003



Itronix Corporation FCC ID: KBCIX260AC300

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1590; ConvF(6.70,6.70,6.70); Crest factor: 1.0
835 MHz Muscle: $\sigma = 0.97$ mho/m $\varepsilon_r = 54.2$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.742 mW/g, SAR (10g): 0.493 mW/g

Body SAR - Right Side of LCD Display (Closed Position)
Antenna Parallel to Planar Phantom (Extended Position)
2.0 cm Separation Distance from Antenna to Planar Phantom
Itronix IX260 Rugged Laptop PC
with Sierra Wireless AirCard 300 CDPD PCMCIA Modem Card
Continuous Wave Mode
Channel 799 [848.97 MHz]
Conducted Power: 28.0 dBm
Ambient Temp: 23.2°C; Fluid Temp: 21.2°C
Date Tested: February 11, 2003