

APPENDIX A – SAR TEST PLOTS

GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET90VS - 9N1609; CoreF(7.40,7.40,7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.56 \text{ mho/m}$, $\rho = 43.2 \text{ g/cm}^3$

Cube 5x5x7; SAR (1g): 1.66 mW/g, SAR (10g): 1.18 mW/g, (Worst-case extrapolation)

Coarse: $O_x = 20.0$, $O_y = 20.0$, $O_z = 10.0$

Powerdrift: -0.34 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

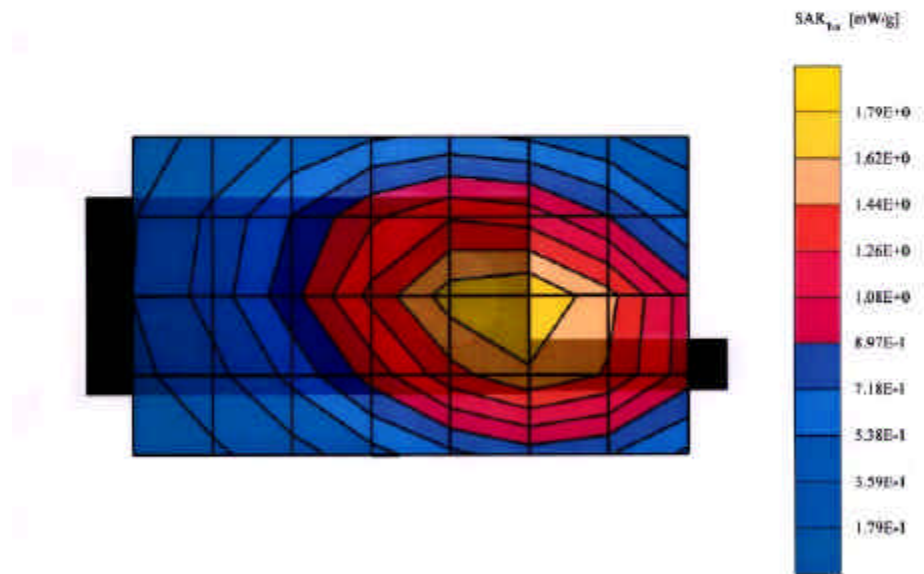
Face / Antenna: in (fixed)

Conducted Power: 1.765W (Battery Type: Toshiba)

Mode: FM GMRS Channel: 1 (462.5625 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; Conif(7.40,7.40,7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86 \text{ mho/m}$, $\rho = 43.2 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.79 mW/g, SAR (10g): 1.26 mW/g, (Worst-case extrapolation)

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

: Powerdrift: -1.01 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

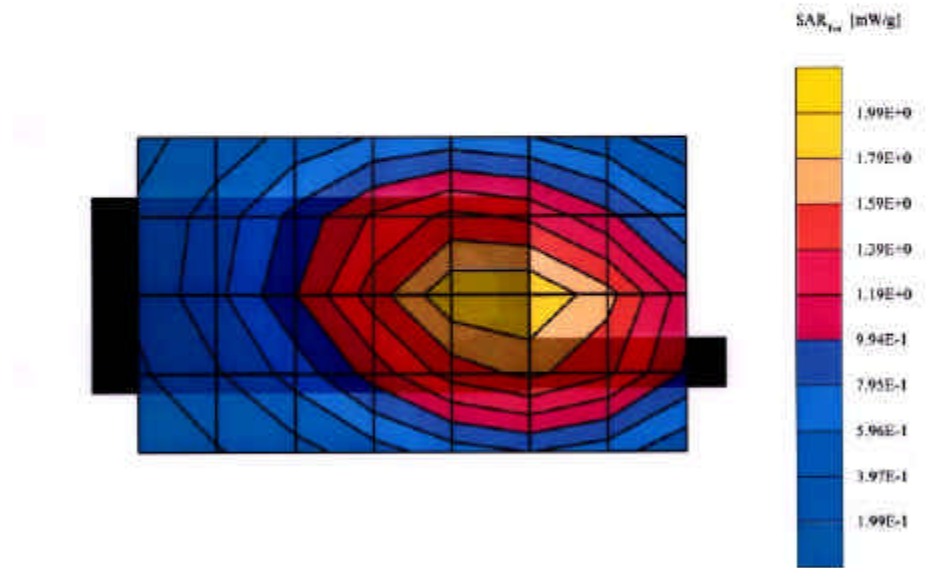
Face / Antenna: in (fixed)

Conducted Power: 1.770W (Battery Type: Toshiba)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



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GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86 \text{ mho/m}$, $\rho = 43.2 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.83 mW/g, SAR (10g): 1.29 mW/g, (Worst-case extrapolation)

Coarse: $\Delta x = 20.0$, $\Delta y = 20.0$, $\Delta z = 10.0$

Powerdirt: -1.07 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

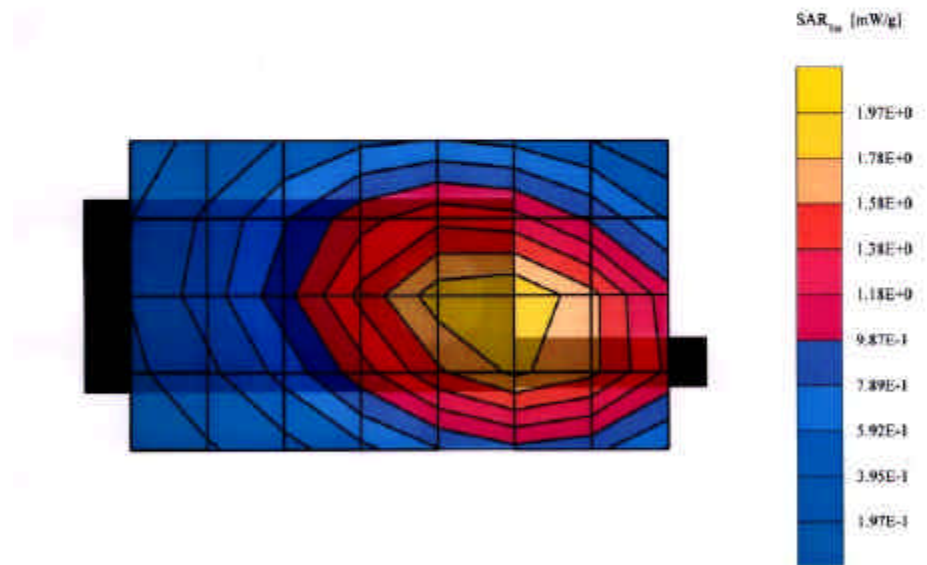
Face / Antenna: in (fixed)

Conducted Power: 1.775W (Battery type: Toshiba)

Mode: FM GMRS Channel 15 (462.7250 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



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GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DVS - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86$ mho/m e: = 43.2 i = 1.00 g/cm³

Cube 5x5x7: SAR (1g): 0.571 mW/g, SAR (10g): 0.403 mW/g, (Worst-case extrapolation)

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

: Powerdrift: -0.21 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

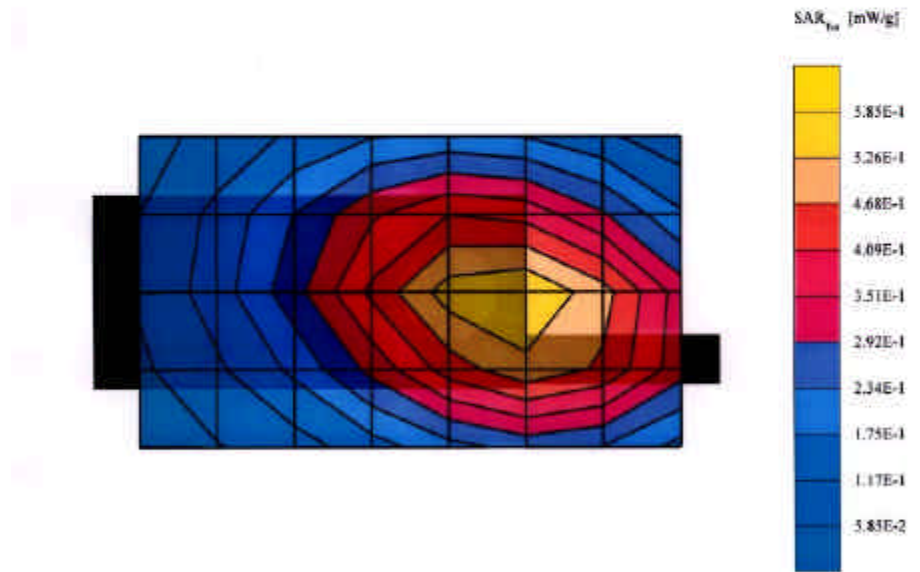
Face / Antenna: in (fixed)

Conducted Power: 0.572W (Battery Type: Toshiba)

Mode: FM PRS Channel: B (467.5625 MHz)

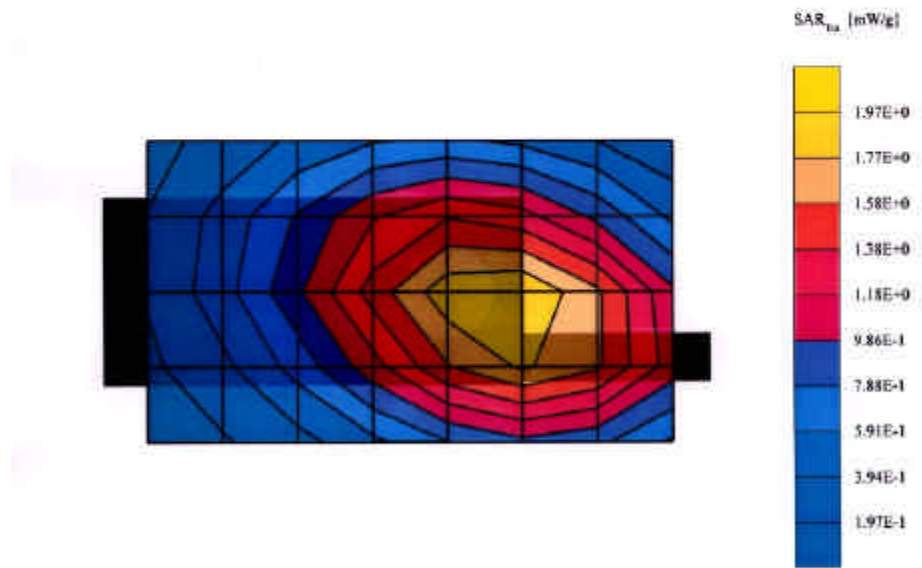
Liquid Temperature: 22 °C

Date Tested: August 7, 2002



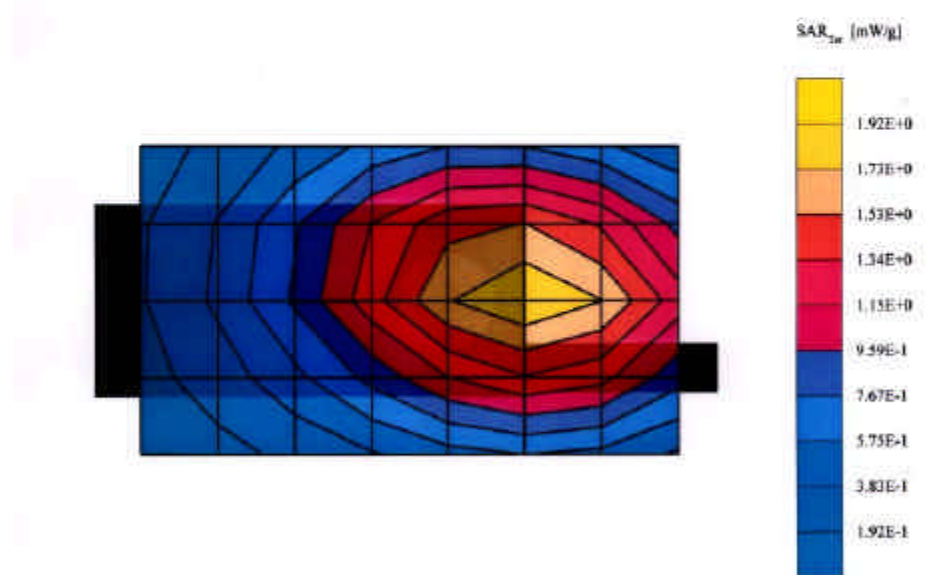
GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz
 Probe: ET3DVS - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86$ mho/m a, $\rho = 43.2$ g/cm³
 Cube 5x5x7: SAR (1g): 1.83 mW/g, SAR (10g): 1.29 mW/g, (Worst-case extrapolation)
 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
 PowerdBI: -0.93 dB
 Comment:
 FCC ID : PCHGMRS-1100
 Company: TTI TECH CO., LTD.
 Face / Antenna: In (fixed)
 Conducted Power: 1.772W (Battery type: Energizer)
 Mode: FM GMRS Channel: 15 (462.7250 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2002



GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz
 Probe: ET3DVS - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86$ mho/m e. = 43.2 $\epsilon = 1.00$ g/cm³
 Cube 5x5x7: SAR (1g): 1.82 mW/g, SAR (10g): 1.29 mW/g. (Worst-case extrapolation)
 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
 : Powerdirt: -0.46 dB
 Comment:
 FCC ID : PDHGMRS-1100
 Company: TTI TECH CO., LTD.
 Face / Antenna: in (fixed)
 Conducted Power: 1.785W (Battery Type: Pocket)
 Mode: FM GMRS Channel: 15 (462.7250 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2002



GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DVS - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86$ mho/m $\rho = 43.2$ g/cm³

Cube 5x5x7; SAR (1g): 0.643 mW/g, SAR (10g): 0.455 mW/g, (Worst-case extrapolation)

Coarse: $\Delta x = 20.0$, $\Delta y = 20.0$, $\Delta z = 10.0$

Powerdlt: -0.24 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

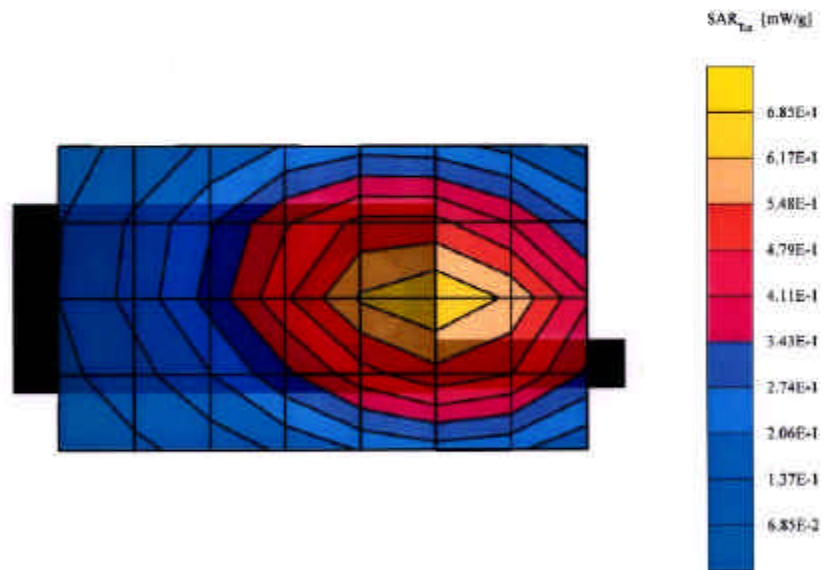
Face / Antenna: in (fixed)

Conducted Power: 0.570W (Battery Type: Energizer)

Mode: FM FRS Channel: B (467.5625 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



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GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DVS - SNI609; ConrF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86 \text{ mho/m}$, $\rho = 43.2 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.607 mW/g, SAR (10g): 0.429 mW/g, (Worst-case extrapolation)

Coarse: $\Delta x = 20.0$, $\Delta y = 20.0$, $\Delta z = 10.0$

: Powerdrift: -0.21 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD

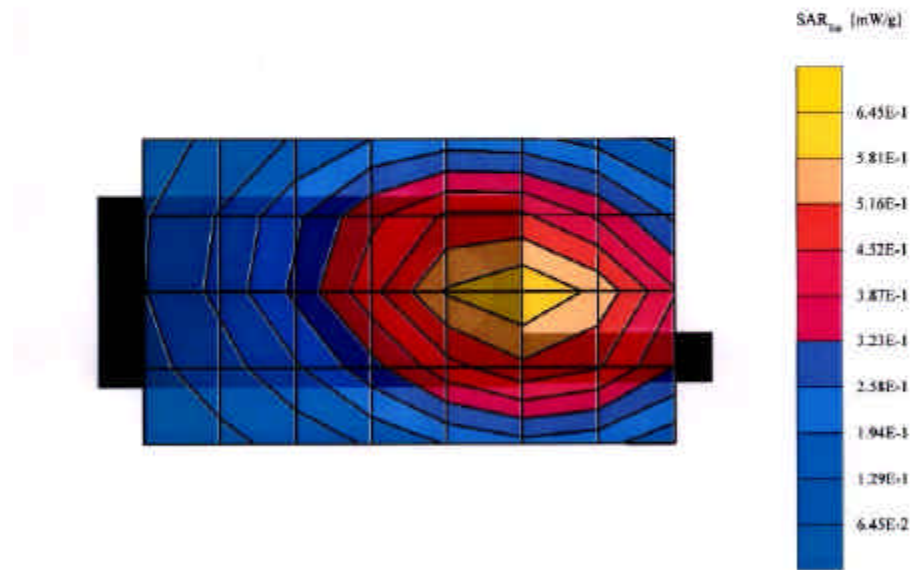
Face / Antenna: in (fixed)

Conducted Power: 0.575W (Battery Type: Pocket)

Mode: FM FRS Channel: 8 (467.5625 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



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GMRS-1100 (Body)

SAM : Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.60,7.60,7.60); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.78 mW/g, SAR (10g): 1.24 mW/g. (Worst-case extrapolation)

Coarse: $\Delta x = 20.0$, $\Delta y = 20.0$, $\Delta z = 10.0$

Powerdrift: -0.89 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

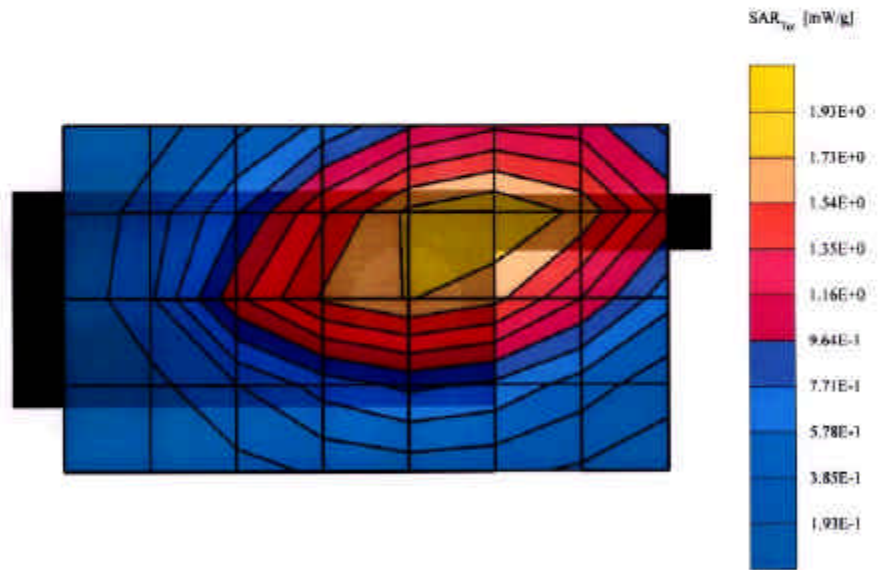
Body / Antenna: In (fixed)

Conducted Power: 1.756W (Battery Type: Toshiba)

Mode: FM GMRS Channel: 1 (462.5625 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



GMRS-1100 (Body)

SAM : Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; CorrF(7.60,7.60,7.60); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.83 mW/g, SAR (10g): 1.28 mW/g, (Worst-case extrapolation)

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

Powerdrift: -0.80 dB

Comment:

FCC ID : PCHGMR5-1100

Company: TTI TECH CO., LTD

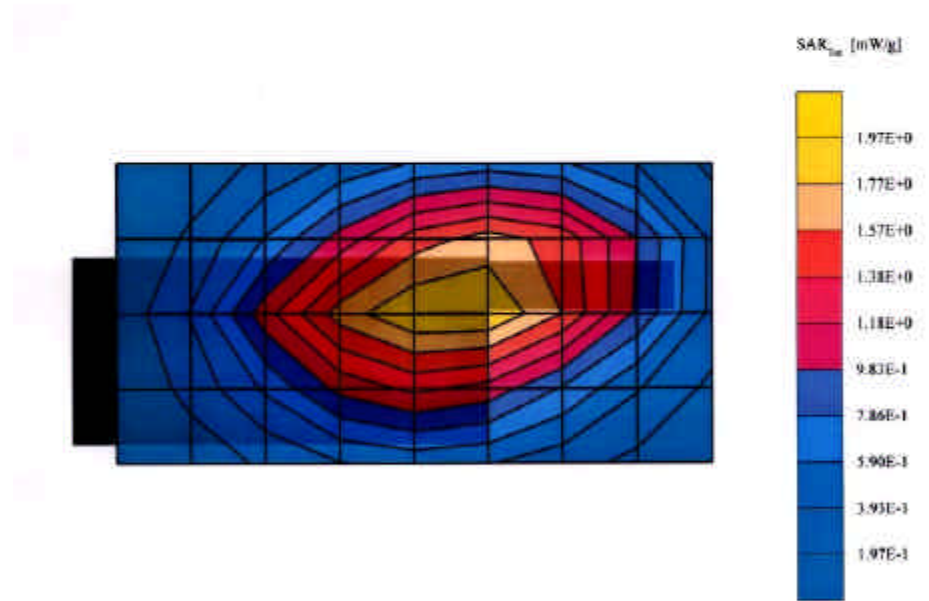
Body / Antenna: In (fixed)

Conducted Power: 1.765W (Battery Type: Toshiba)

Mode: FM GMRS Channel: 22 (462.7250 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



GMRS-1100 (Body)

SAM : Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV5 - SN1609; ConvF(7.60, 7.60, 7.60); Crest factor: 1.0; Muscle 450 MHz: $s = 0.93 \text{ mho/m}$, $\epsilon = 55.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.78 mW/g, SAR (10g): 1.23 mW/g, (Worst-case extrapolation)

Coarse: $\Delta x = 20.0$, $\Delta y = 20.0$, $\Delta z = 10.0$

Power drift: -0.72 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

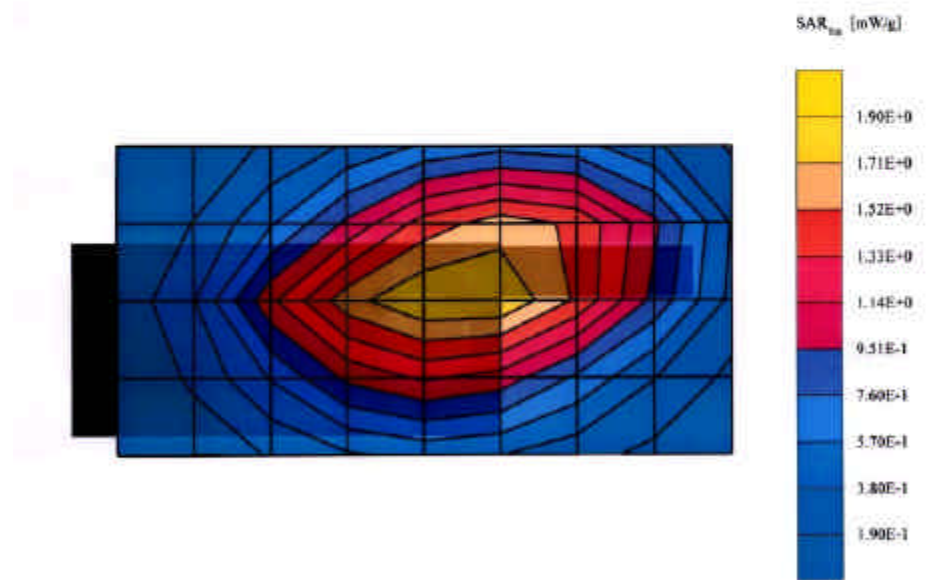
Body / Antenna: In (fixed)

Conducted Power: 1.758W (Battery Type: Toshiba)

Mode: FM GMRS Channel: 15 (462.7250 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



GMRS-1100 (Body)

SAM : Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1609; ConnF(7.80, 7.80, 7.80); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 0.533 mW/g, SAR (10g): 0.370 mW/g. (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdelt: -0.19 dB

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD

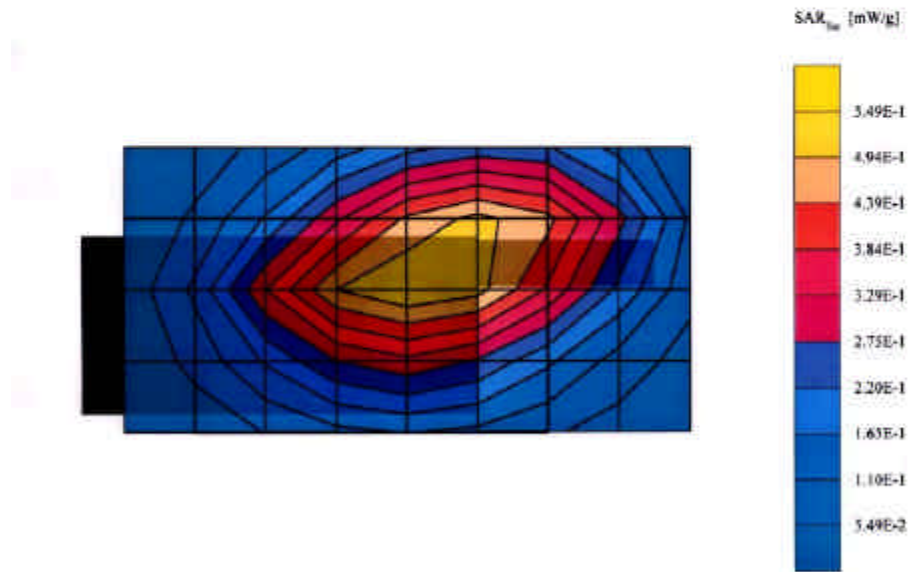
Body / Antenna: In (fixed)

Conducted Power: 0.572W (Battery Type: Toshiba)

Mode: FM FRS Channel: 8 (467.5625 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



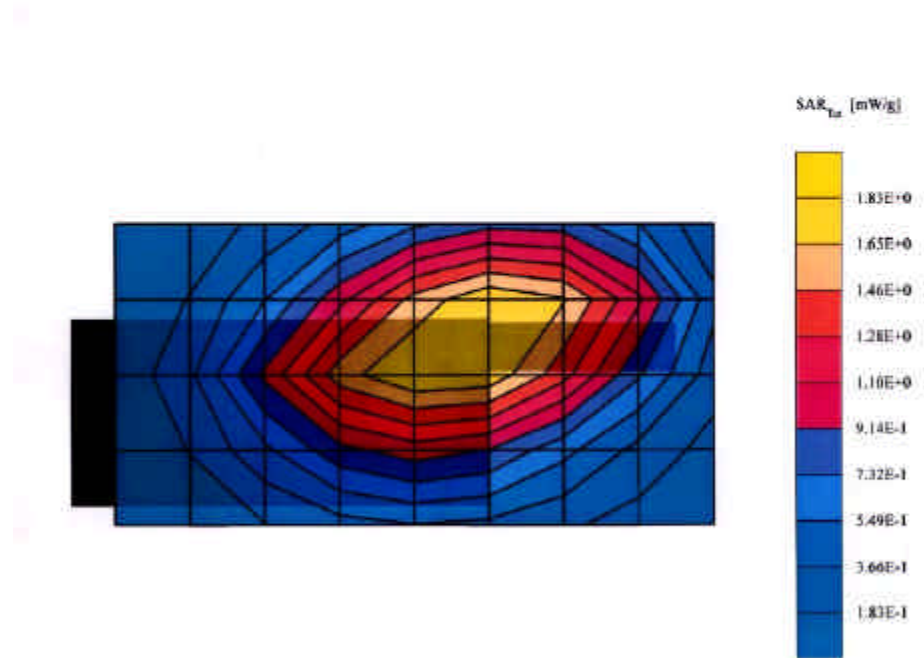
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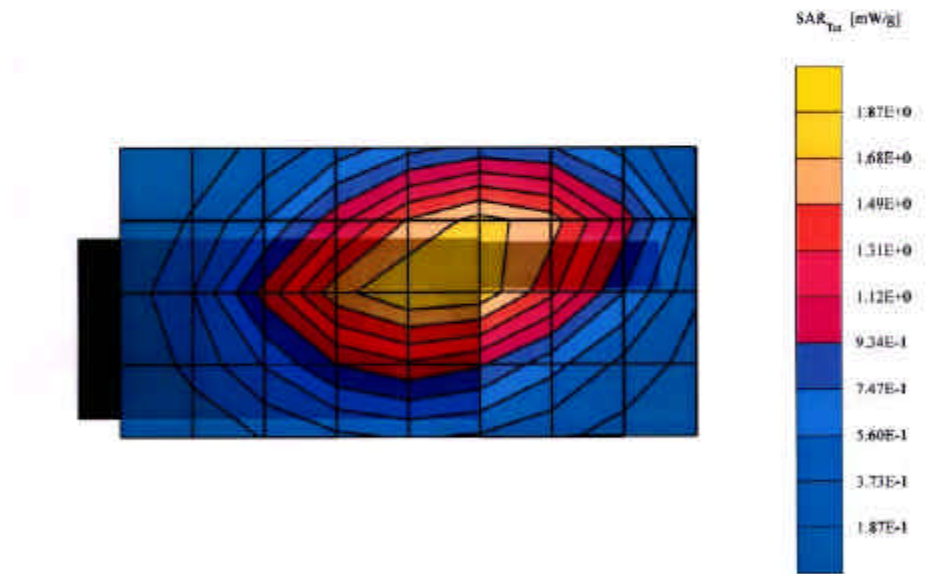
GMRS-1100 (Body)

SAM : Phantom; Flat Section; Position: (90°, 90°); Frequency: 450 MHz
 Probe: ET3DVS - 8N1600; ConvF(7.60, 7.60, 7.60); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$
 $\rho = 1.00 \text{ g/cm}^3$
 Cube 5x5x7: SAR (1g): 1.78 mW/g, SAR (10g): 1.19 mW/g, (Worst-case extrapolation)
 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
 : Powerdirt: -0.73 dB
 Comment:
 FCC ID : PDHGMRS-1100
 Company: TTI TECH CO., LTD.
 Body / Antenna: in (fixed)
 Conducted Power: 1.767W (Battery Type: Energizer)
 Mode: FM GMRS Channel: 22 (462.7250 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2002



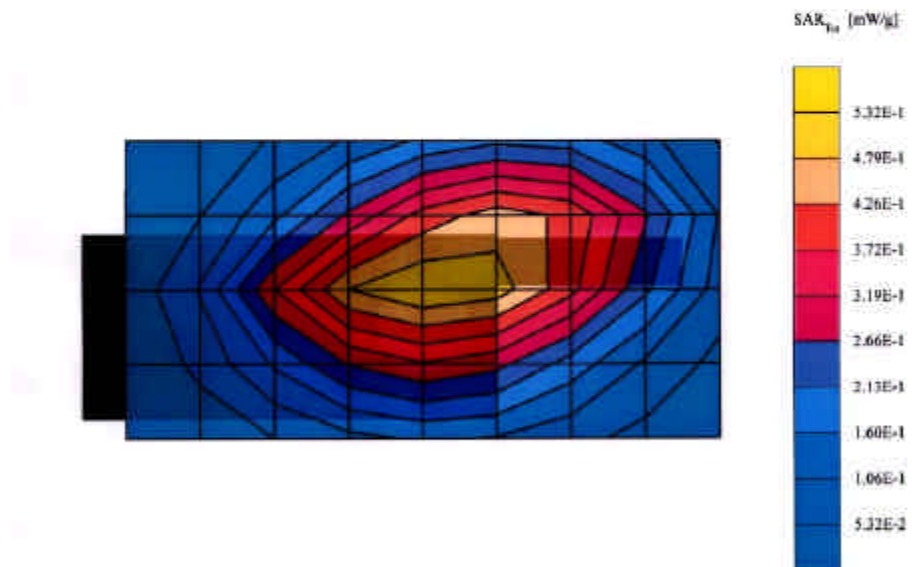
GMRS-1100 (Body)

SAM : Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz
 Probe: ET3DV8 - SN1609; ConyF(7.60,7.60,7.60); Crest Isolat: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$
 * 1.00 g/cm³
 Cube 5x5x7: SAR (1g): 1.79 mW/g, SAR (10g): 1.23 mW/g; (Worst-case extrapolation)
 Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
 Powerdrift: -0.68 dB
 Comment:
 FCC ID : PDHGMRS-1100
 Company: TTI TECH CO., LTD.
 Body / Antenna: in (fixed)
 Conducted Power: 1.758W (Battery Type: Rocket)
 Mode: FM GMRS Channel- 22 (462.7250 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2002



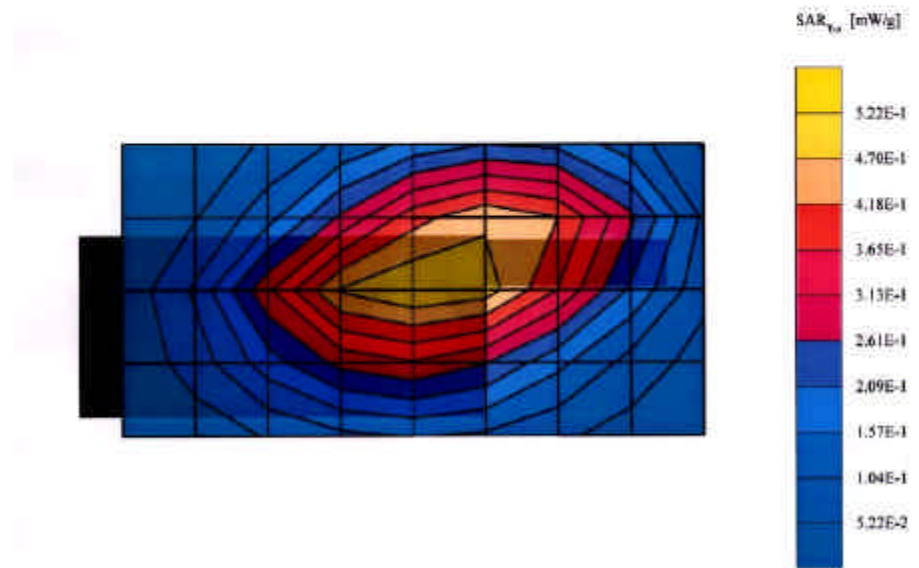
GMRS-1100 (Body)

SAM : Phantom: Flat Section; Position: (90°,90°); Frequency: 460 MHz
 Probe: ETSDVS - SN1009; ConvF(7.60,7.60,7.60); Crest factor: 1.0; Muscle 460 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.97 \text{ g/cm}^3$
 Cube 5x5x7; SAR (1g): 0.506 mW/g, SAR (10g): 0.350 mW/g, (Worst-case extrapolation)
 Coarse: $\Delta x = 20.0$, $\Delta y = 20.0$, $\Delta z = 10.0$
 Powerdirt: -0.14 dB
 Comment:
 FCC ID : PDHGMRS-1100
 Company: TTI TECH CO., LTD.
 Body / Antenna: in (fixed)
 Conducted Power: 0.574W (Battery Type: Energizer)
 Mode: FM FRS Channel 8 (467.5625 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2012



GMRS-1100 (Body)

SAM : Phantom; Flat Section; Position: (90°, 90°); Frequency: 460 MHz
 Probe: ET3DVS - SN1609; Corrf(7.60,7.60,7.60); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$
 Cube 5x5x7: SAR (1g): 0.503 mW/g, SAR (10g): 0.347 mW/g, (Worst-case extrapolation)
 Csize: Ox = 20.0, Oy = 20.0, Oz = 10.0
 Powerdlt: -0.15 dB
 Comment:
 FCC ID : PDHGMRS-1100
 Company: TTI TECH CO., LTD.
 Body / Antenna: in (fixed)
 Conducted Power: 0.562W (Battery Type: Rocket)
 Mode: FM FRS Channel: 8 (467.5625 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2002



GMRS-1100 (Face)

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $s = 0.86 \text{ mho/m}$, $e_r = 43.2$, $r = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.83 mW/g, SAR (10g): 1.29 mW/g. (Worst-case extrapolation)

Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:

FCC ID : PDHGMRS-1100

Company: TTI TECH CO., LTD.

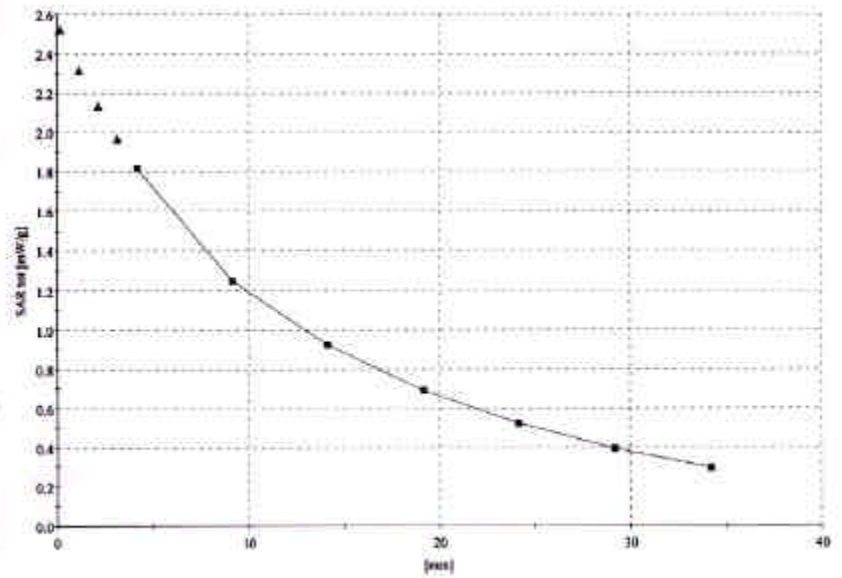
Face / Antenna: In (fixed)

Conducted Power: 1.775W (Battery Type: Toshiba)

Mode: FM GMRS Channel: 15 (462.7250 MHz)

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



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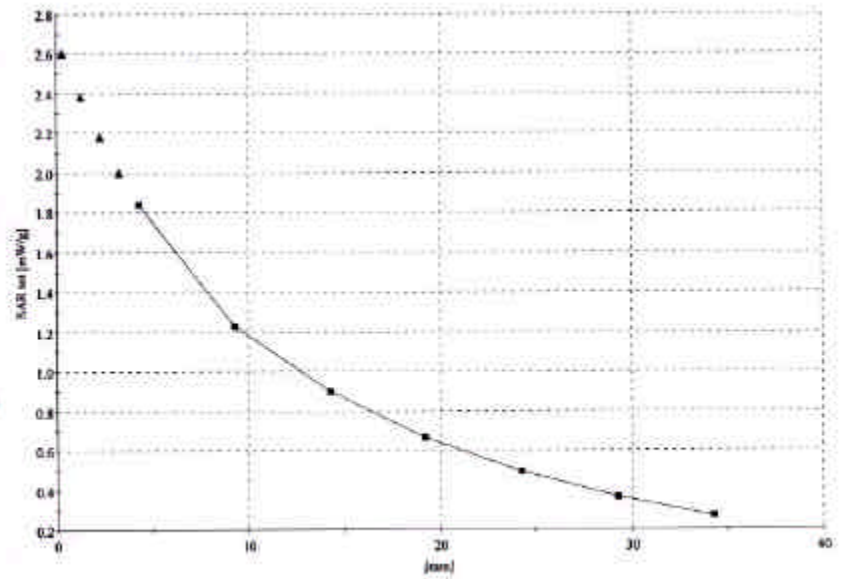
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GMRS-1100 (Body)

SAM : Phantom: Flat Section; Position: [90°, 90°]; Frequency: 450 MHz
 Probe: ET3DV6 - SN1609; ConvF(7.60,7.60,7.60); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.93 \text{ mho/m}$, $\rho = 55.9 \text{ g/cm}^3$
 $\rho = 1.00 \text{ g/cm}^3$
 Cube 5x5x7: SAR (1g): 1.83 mW/g, SAR (10g): 1.25 mW/g. (Worst-case extrapolation)
 Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:

FCC ID : PDHGMR5-1100
 Company: TTI TECH CO., LTD.
 Body / Antenna: In (fixed)
 Conducted Power: 1.765W (Battery Type: Toshiba)
 Mode: FM GMRS Channel: 22 (462.7250 MHz)
 Liquid Temperature: 22 °C
 Date Tested: August 7, 2002



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