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## **APPENDIX B Plots of the SAR Measurements**

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.





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Test Lab: EMCTech Test File: M160204 Personell Belt Clip Tag 920 MHz 3G FCC.da52:0

DUT Name: GE Mining Personnel Tag, Type: PROD1060-2, Serial: 060616100003

Configuration: Belt Clip Sample 1 Antenna (Right)

Communication System: 0 - CW; Communication System Band: GE Mining; Frequency: 920.0 MHz,

Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: f=920 MHz;  $\sigma$  = 1.07 S/m;  $\varepsilon_r$  = 53.7;  $\rho$  = 1000.0g/cm<sup>3</sup>

Phantom section: Flat Section

## **DASY Configuration:**

Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection) Electronics: DAE3 Sn442; Calibrated: 6/12/2016 Phantom: SAM 12; Type: SAM 12; Serial: 1060

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

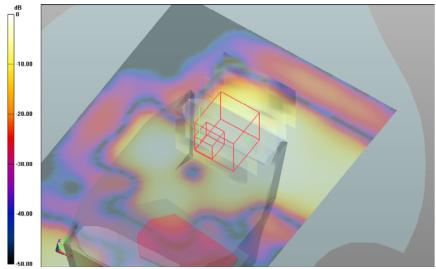
**Belt Clip Sample 1 Antenna (Right)/Channel 3 Test/Area Scan (61x91x1):** Interpolated grid: dx=2.0 mm, dy=2.0 mm; Maximum value of SAR (interpolated) = 0.001 W/kg

Belt Clip Sample 1 Antenna (Right)/Channel 3 Test/Zoom Scan (26x26x36)/Cube 0: Interpolated grid:

dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 1.097 V/m; Power Drift = -0.09 dB

Averaged SAR: SAR(1g) = 0.001 W/kg; SAR(10g) = 0.001 W/kg

Maximum value of SAR (interpolated) = 0.003 W/kg



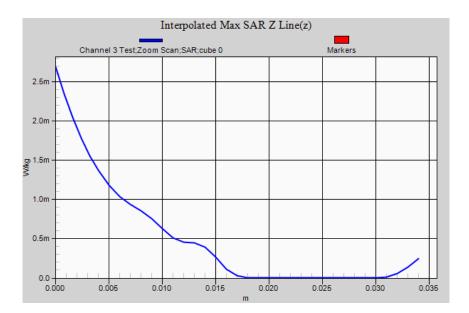
0 dB = 0.00126 W/kg = -29.00 dBW/kg

SAR Measurement Plot 1





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Test Lab: EMCTech Test File: M160204 Personell PROD1060-2 Tag 920 MHz 3G FCC.da52:1

DUT Name: GE Mining Personnel Tag, Type: Belt Clip, Serial: 060616100004

Configuration: Belt Clip Sample 2 Antenna (Top)

Communication System: 0 - CW; Communication System Band: GE Mining; Frequency: 920.0 MHz,

Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: f=920 MHz;  $\sigma$  = 1.07 S/m;  $\varepsilon_r$  = 53.7;  $\rho$  = 1000.0g/cm<sup>3</sup>

Phantom section: Flat Section

## **DASY Configuration:**

Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection) Electronics: DAE3 Sn442; Calibrated: 6/12/2016 Phantom: SAM 12; Type: SAM 12; Serial: 1060

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

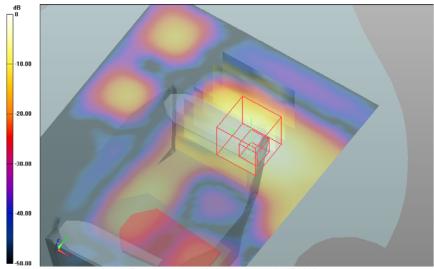
Belt Clip Sample 2 Antenna (Top)/Channel 3 Test/Area Scan (61x91x1): Interpolated grid: dx=2.0 mm, dy=2.0 mm; Maximum value of SAR (interpolated) = 0.005 W/kg

Belt Clip Sample 2 Antenna (Top)/Channel 3 Test/Zoom Scan (26x26x36)/Cube 0: Interpolated grid:

dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 1.257 V/m; Power Drift = -0.12 dB

Averaged SAR: SAR(1g) = 0.002 W/kg; SAR(10g) = 0.001 W/kg

Maximum value of SAR (interpolated) = 0.003 W/kg



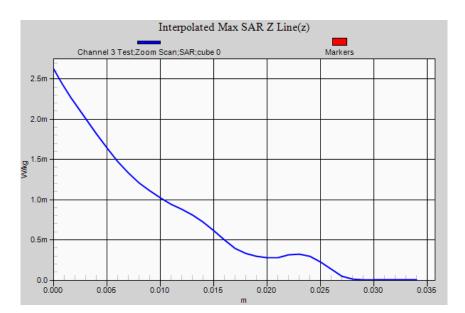
0 dB = 0.00468 W/kg = -23.30 dBW/kg

SAR Measurement Plot 2





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Test Lab: EMCTech Test File: M160204 Personell PROD1060-2 Tag 920 MHz 3G FCC.da52:2

DUT Name: Dipole 900 MHz, Type: DV900V2, Serial: 047

**Configuration: System Check** 

Communication System: 0 - CW 900 MHz; Communication System Band: 900 MHz; Frequency: 900.0

MHz, Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00 Medium Parameters used: f=900 MHz;  $\sigma$  = 1.05 S/m;  $\epsilon_r$  = 53.9;  $\rho$  = 1000.0g/cm<sup>3</sup>

Phantom section: Flat Section

## **DASY Configuration:**

Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection) Electronics: DAE3 Sn442; Calibrated: 6/12/2016 Phantom: SAM 12; Type: SAM 12; Serial: 1060

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

System Check/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum

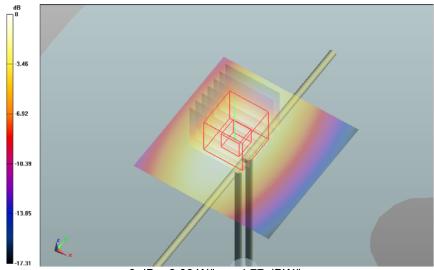
value of SAR (interpolated) = 3.000 W/kg

System Check/Channel 1 Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0

mm, dz=1.0 mm; Reference Value = 54.983 V/m; Power Drift = -0.08 dB

Averaged SAR: SAR(1g) = 2.720 W/kg; SAR(10g) = 1.750 W/kg

Maximum value of SAR (interpolated) = 4.010 W/kg



0 dB = 3.00 W/kg = 4.77 dBW/kg

SAR Measurement Plot 3





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