

Figure 69 Z-Scan at power reference point (Left Hand Tilt 15 ° Close GSM 1900 Channel 661)

### GSM 1900 Left Tilt Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Tilt Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.245 mW/g

**Tilt Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.39 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.299 W/kg

**SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.117 mW/g**

Maximum value of SAR (measured) = 0.221 mW/g

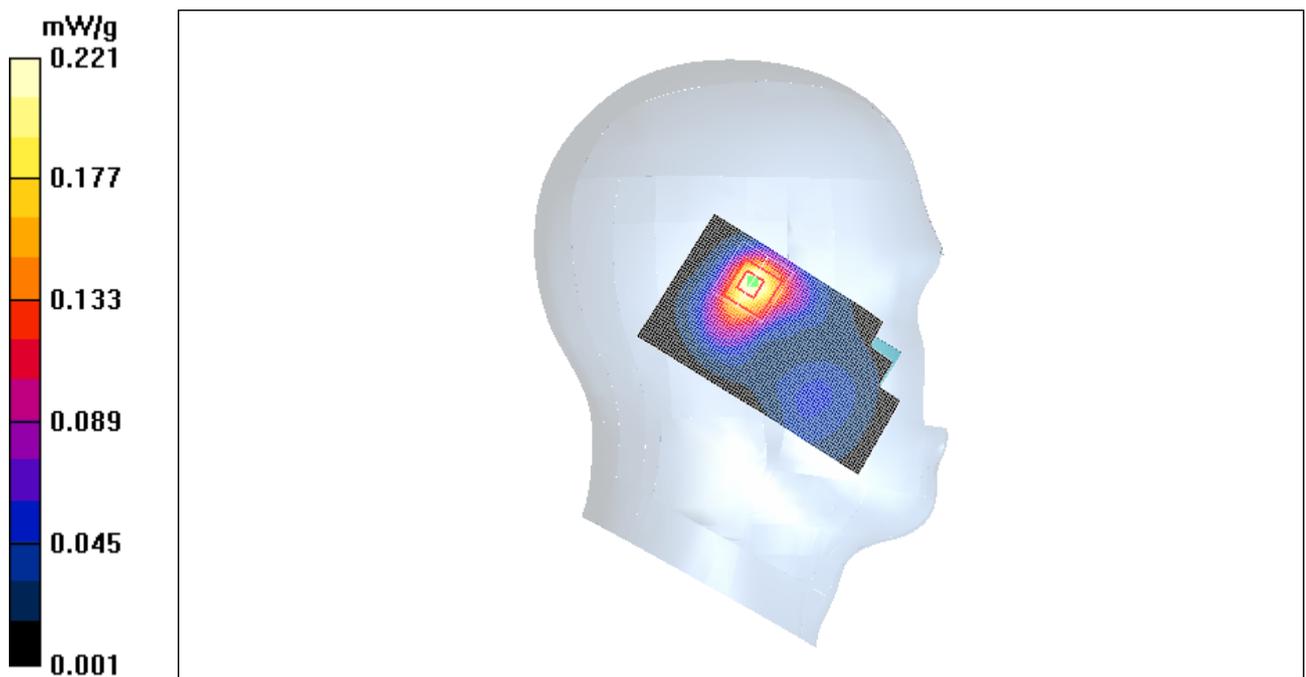


Figure 70 Left Hand Tilt 15 ° Close GSM 1900 Channel 512

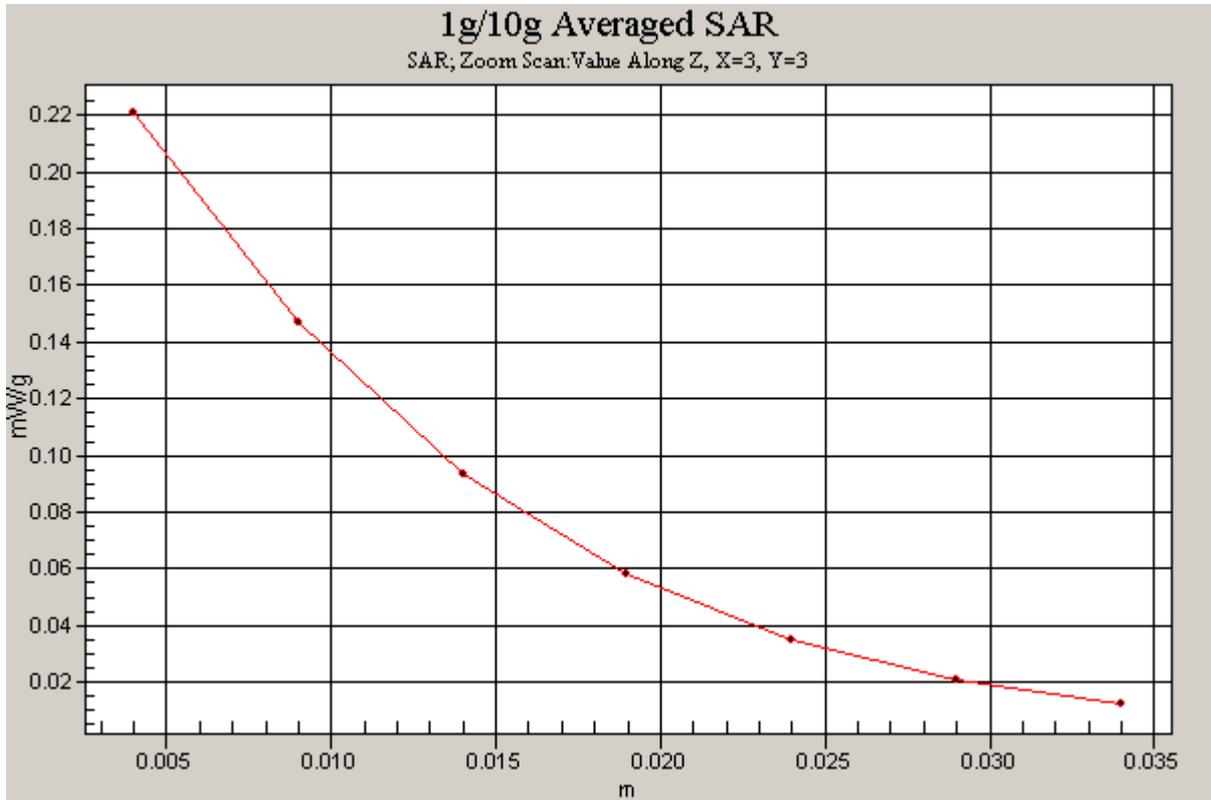


Figure 71 Z-Scan at power reference point (Left Hand Tilt 15 ° Close GSM 1900 Channel 512)

**GSM 1900 Right Cheek High Close**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Cheek High/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.364 mW/g

**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.08 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.488 W/kg

**SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.212 mW/g**

Maximum value of SAR (measured) = 0.370 mW/g

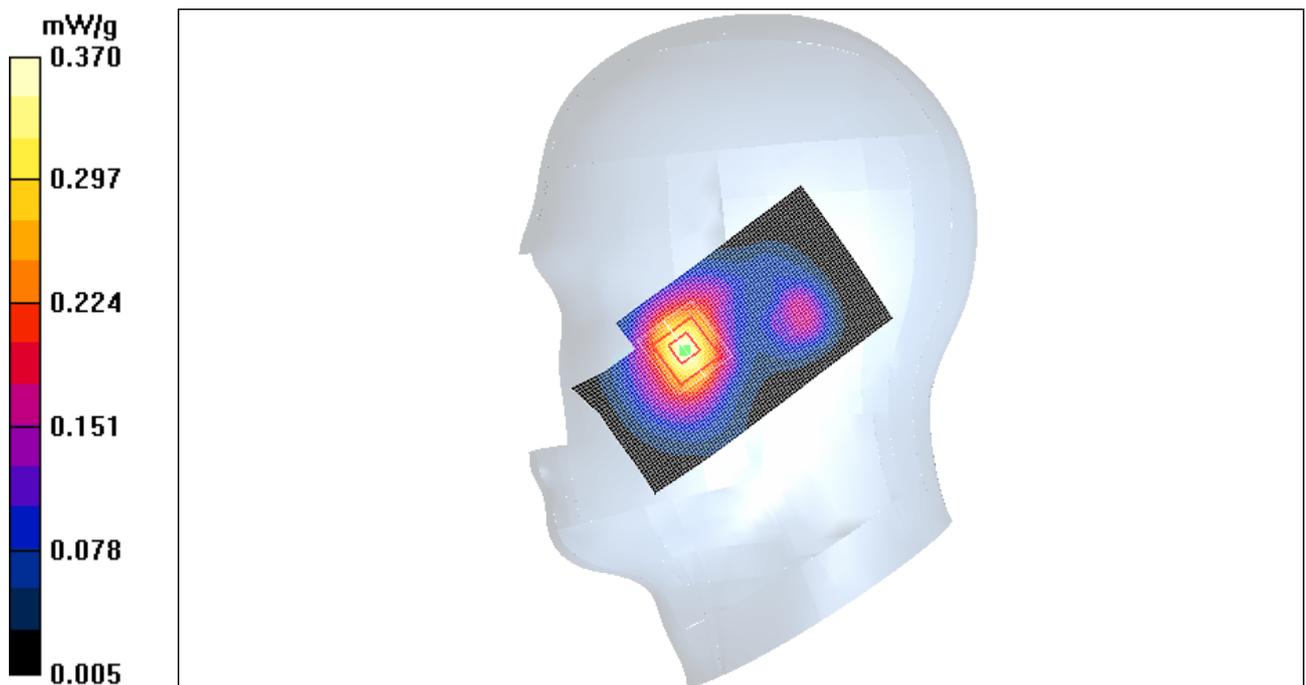


Figure 72 Right Hand Touch Cheek Close GSM 1900 Channel 810

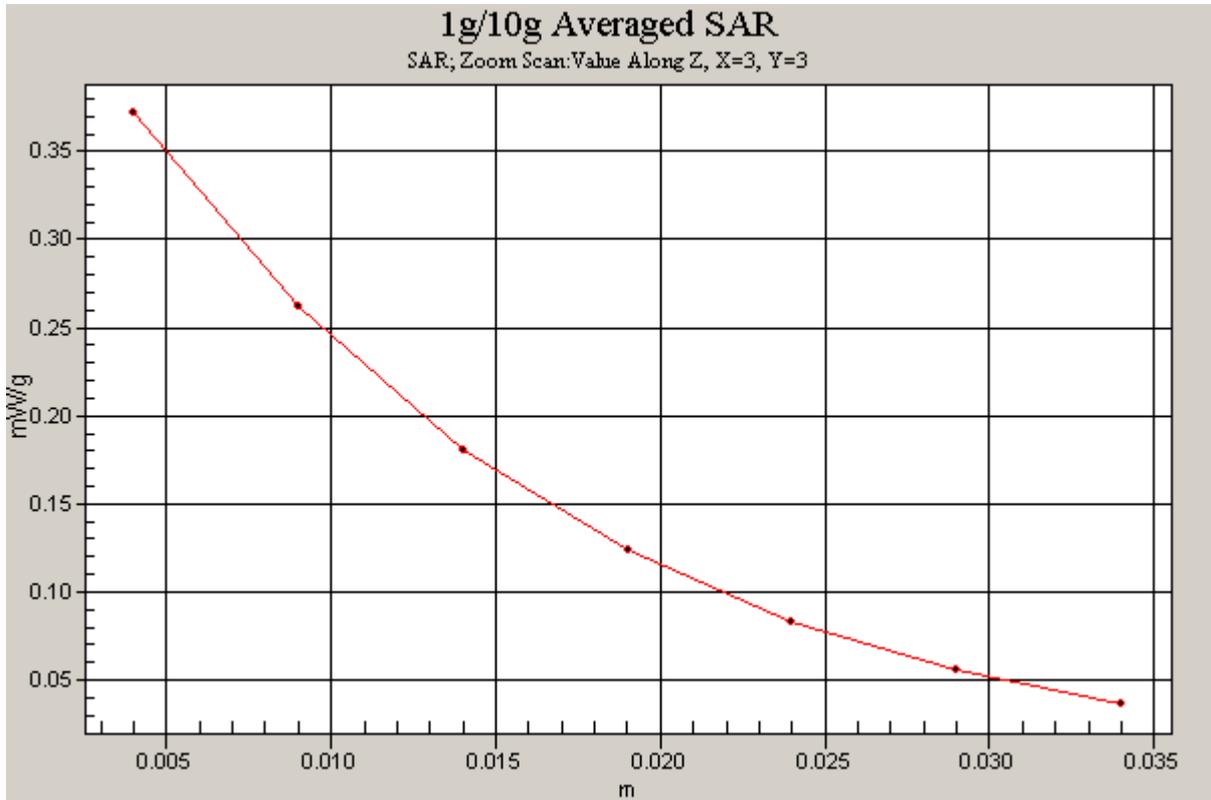


Figure 73 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 810)

**GSM 1900 Right Cheek Middle Close**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Cheek Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.406 mW/g

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.19 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.529 W/kg

**SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.238 mW/g**

Maximum value of SAR (measured) = 0.416 mW/g

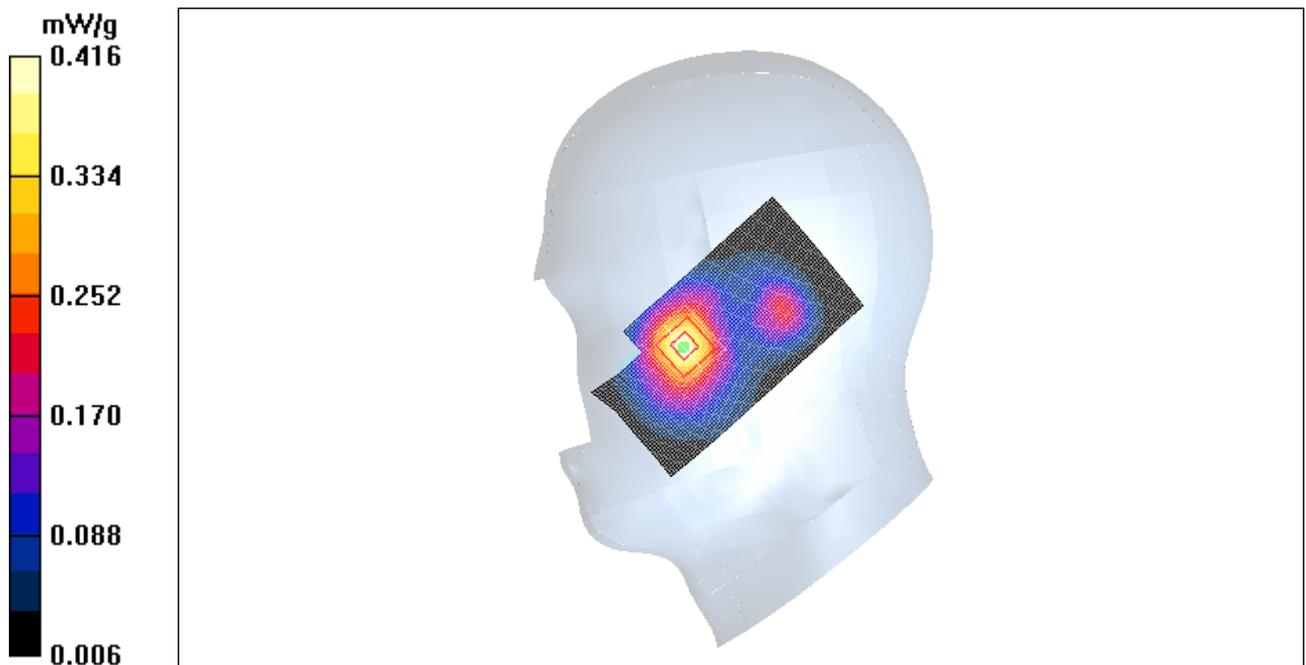


Figure 74 Right Hand Touch Cheek Close GSM 1900 Channel 661

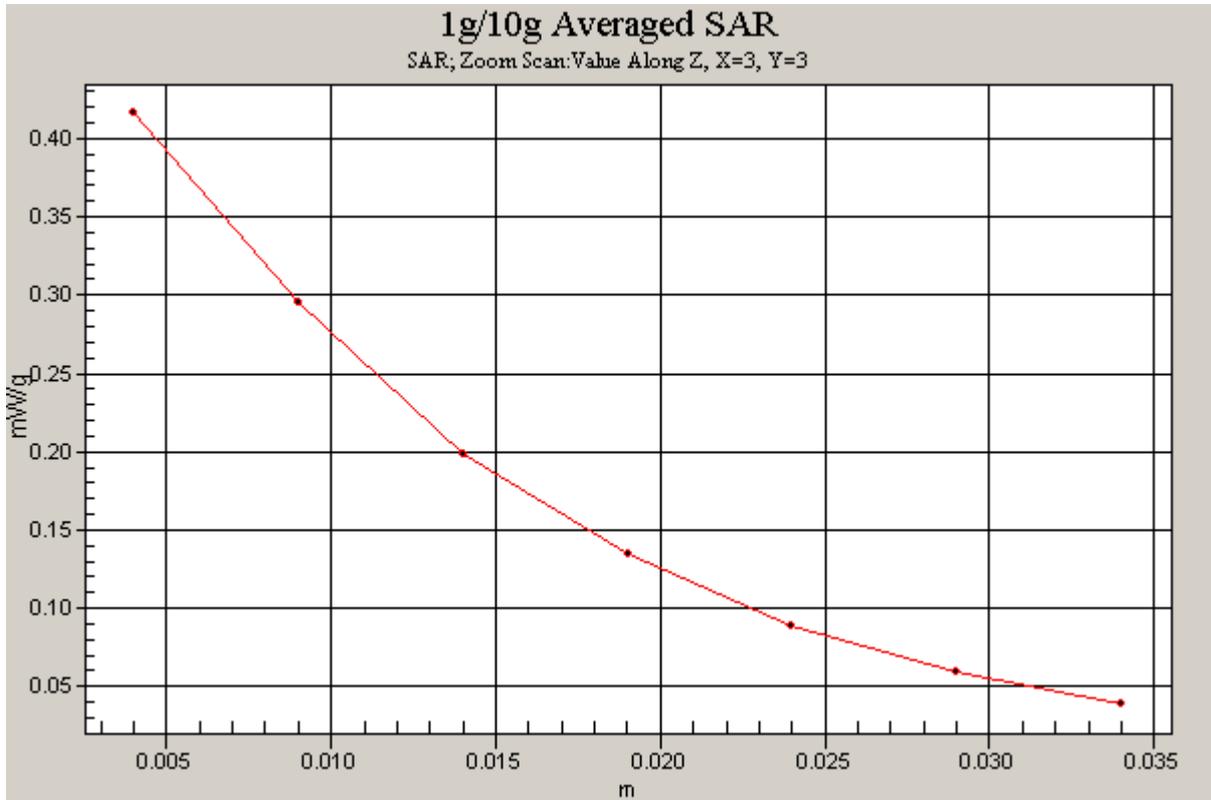


Figure 75 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 661)

### GSM 1900 Right Cheek Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Cheek Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.372 mW/g

**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.17 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 0.453 W/kg

**SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.211 mW/g**

Maximum value of SAR (measured) = 0.367 mW/g

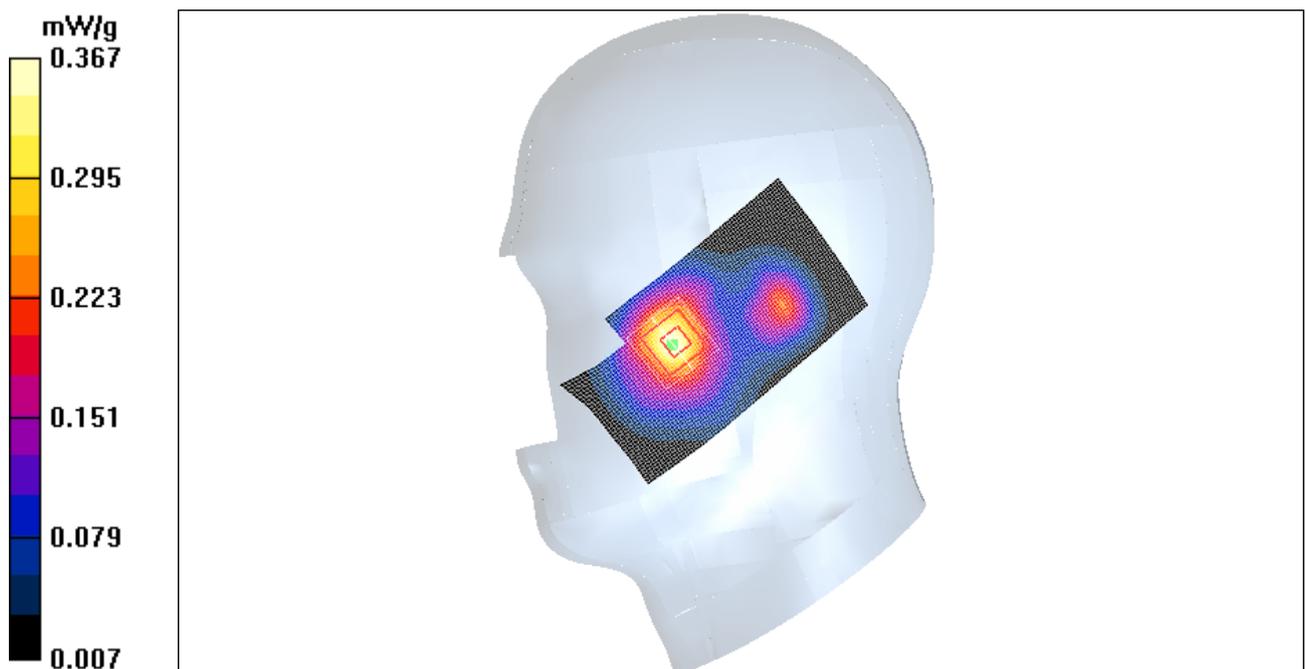


Figure 76 Right Hand Touch Cheek Close GSM 1900 Channel 512

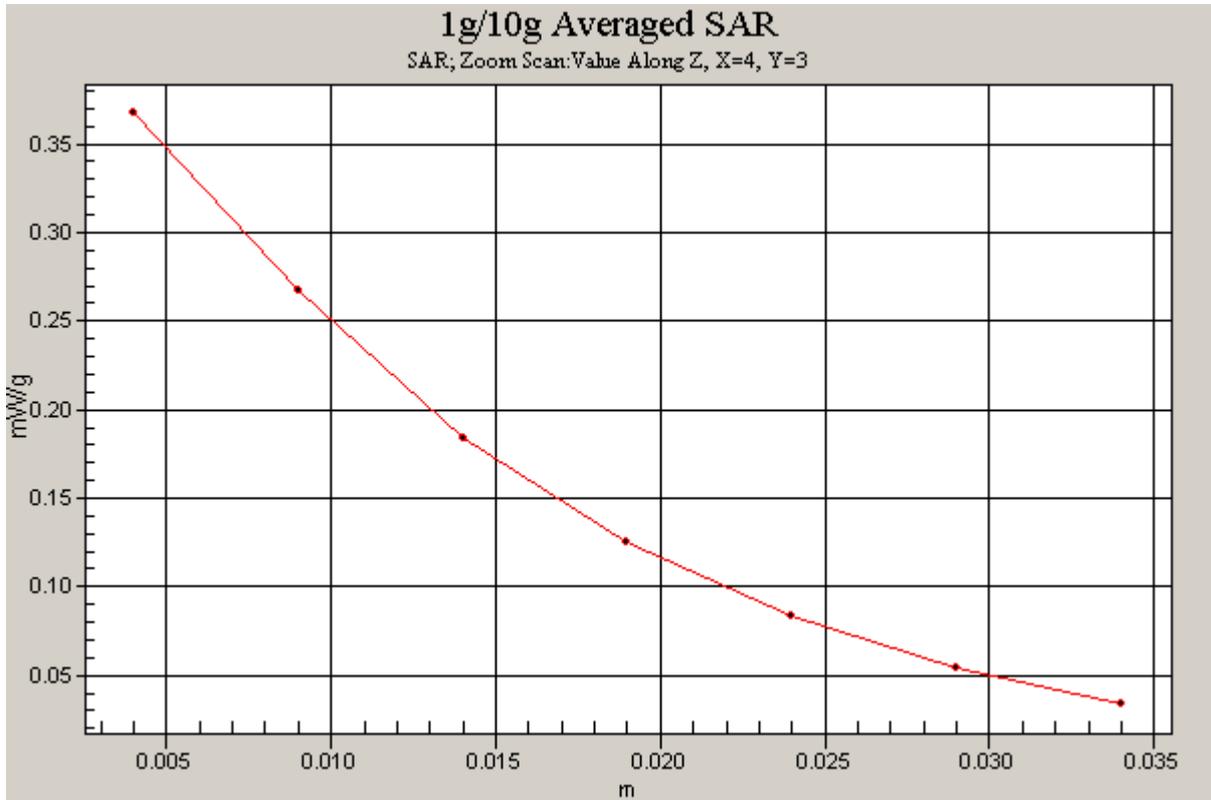


Figure 77 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 512)

**GSM 1900 Right Tilt High Close**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Tilt High/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.257 mW/g

**Tilt High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.346 W/kg

**SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.132 mW/g**

Maximum value of SAR (measured) = 0.253 mW/g

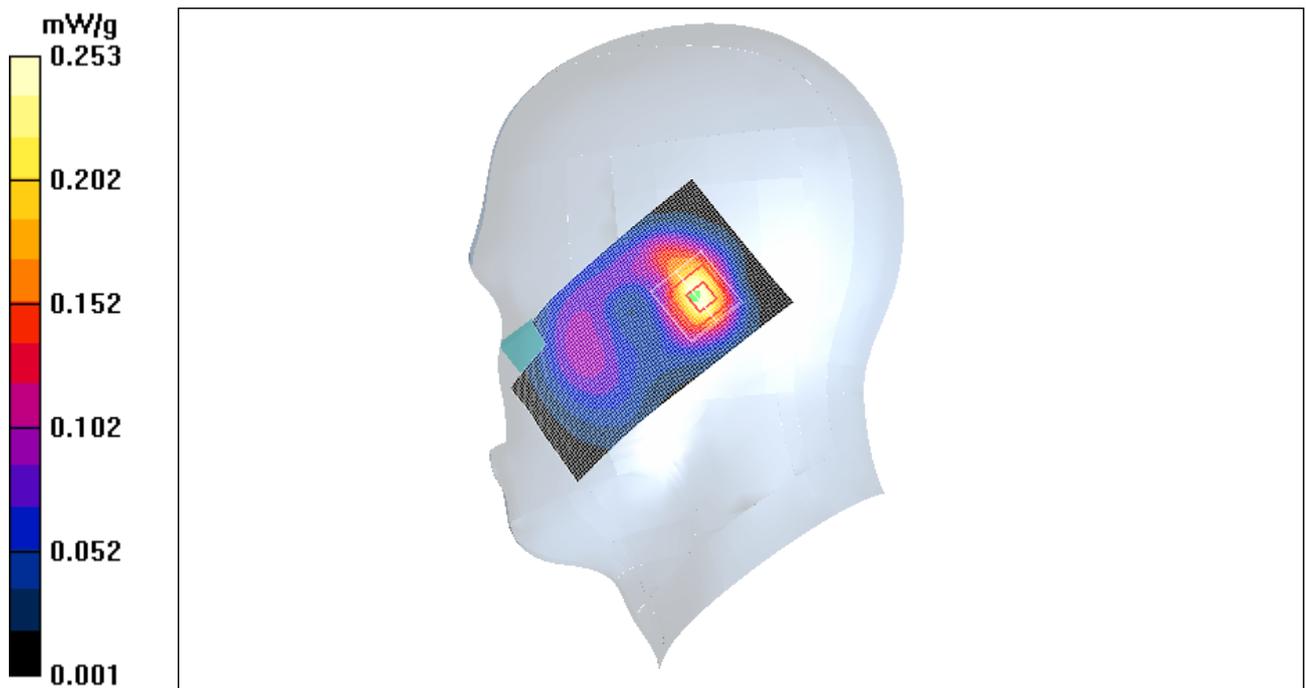


Figure 78 Right Hand Tilt 15 ° Close GSM 1900 Channel 810

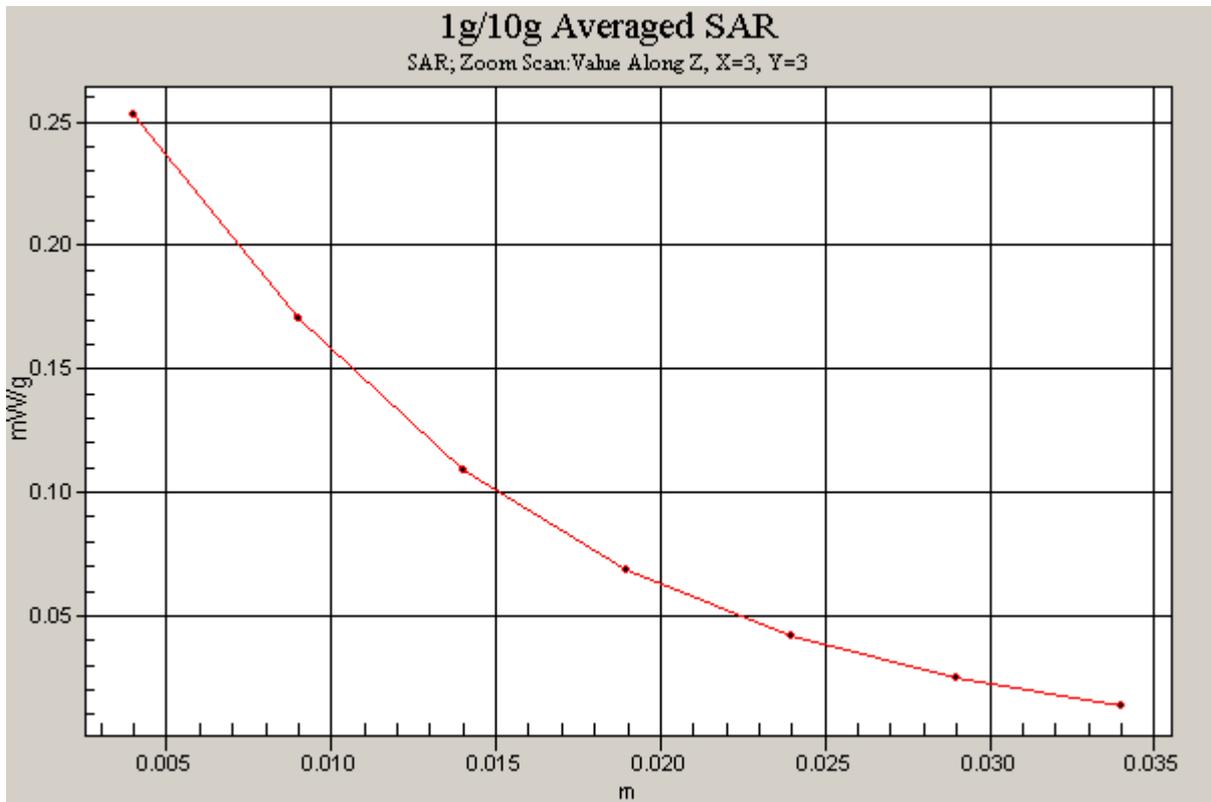


Figure 79 Z-Scan at power reference point (Right Hand Tilt 15 ° Close GSM 1900 Channel 810)

### GSM 1900 Right Tilt Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Tilt Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.253 mW/g

**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.333 W/kg

**SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.130 mW/g**

Maximum value of SAR (measured) = 0.250 mW/g

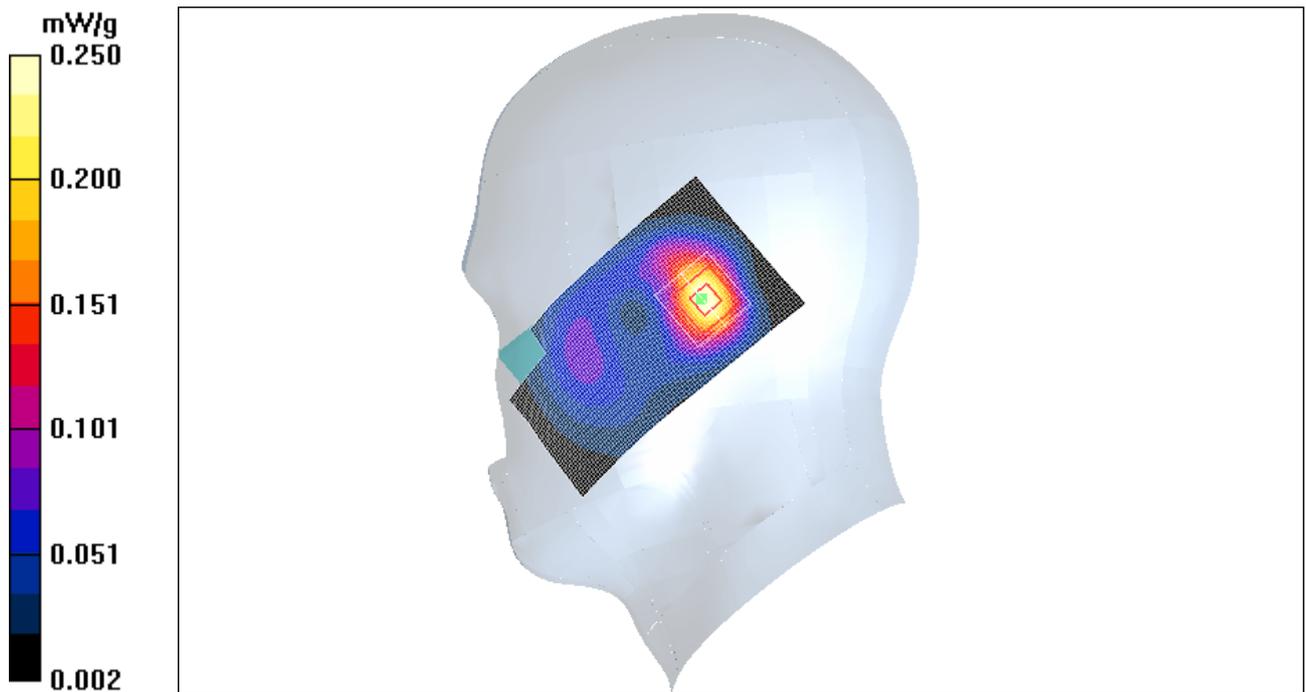


Figure 80 Right Hand Tilt 15 ° Close GSM 1900 Channel 661

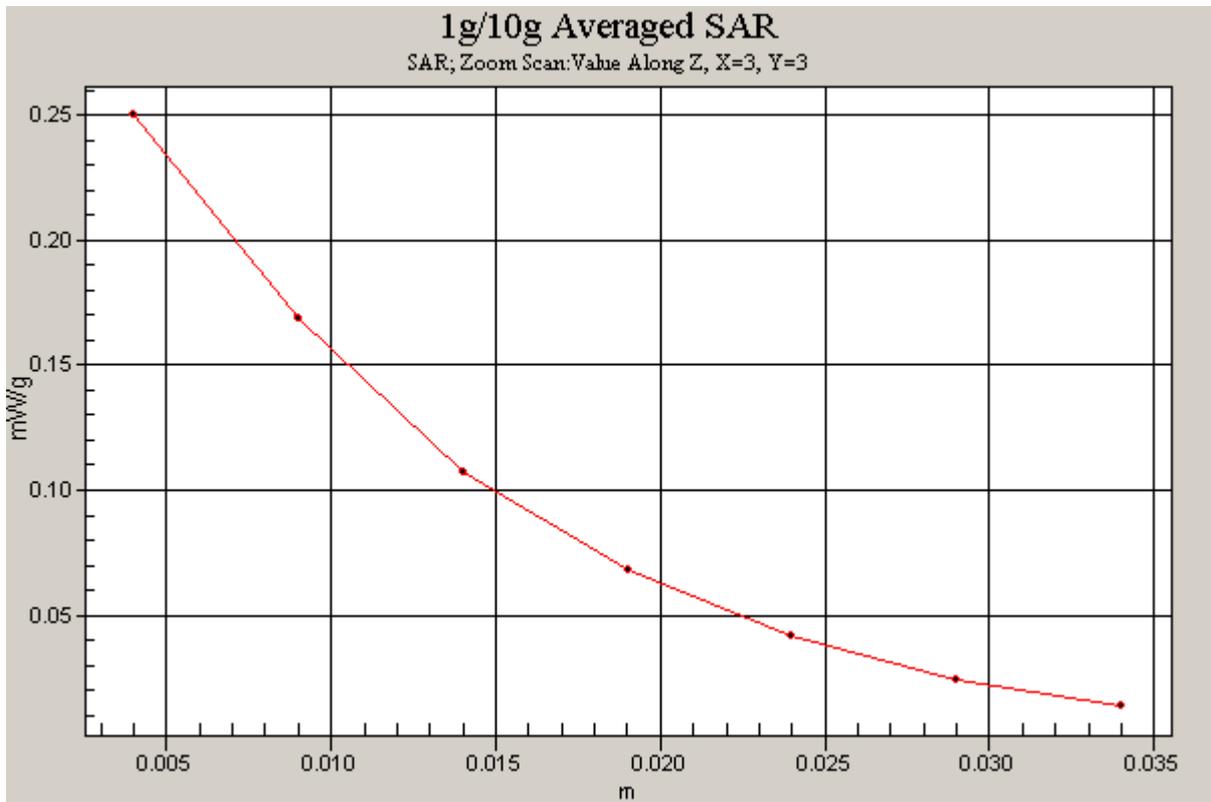


Figure 81 Z-Scan at power reference point (Right Hand Tilt 15 ° Close GSM 1900 Channel 661)

**GSM 1900 Right Tilt Low Close**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**Tilt Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.227 mW/g

**Tilt Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.291 W/kg

**SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.116 mW/g**

Maximum value of SAR (measured) = 0.224 mW/g

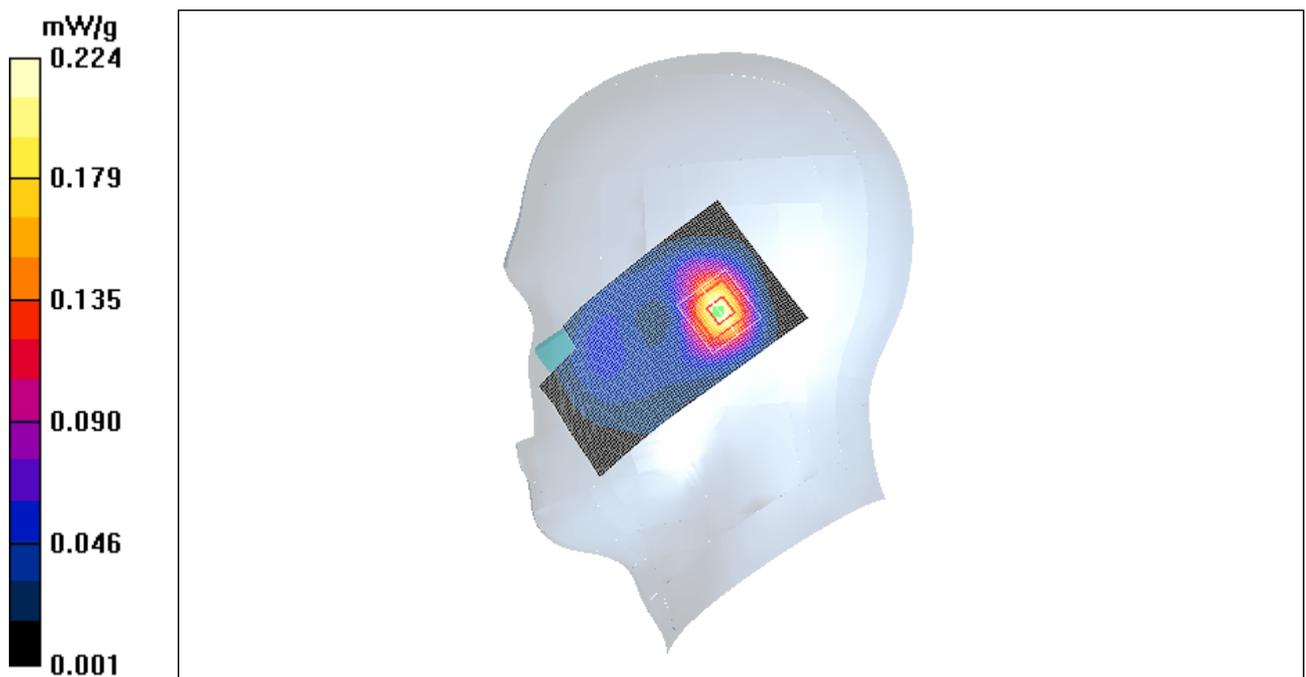


Figure 82 Right Hand Tilt 15 ° Close GSM 1900 Channel 512

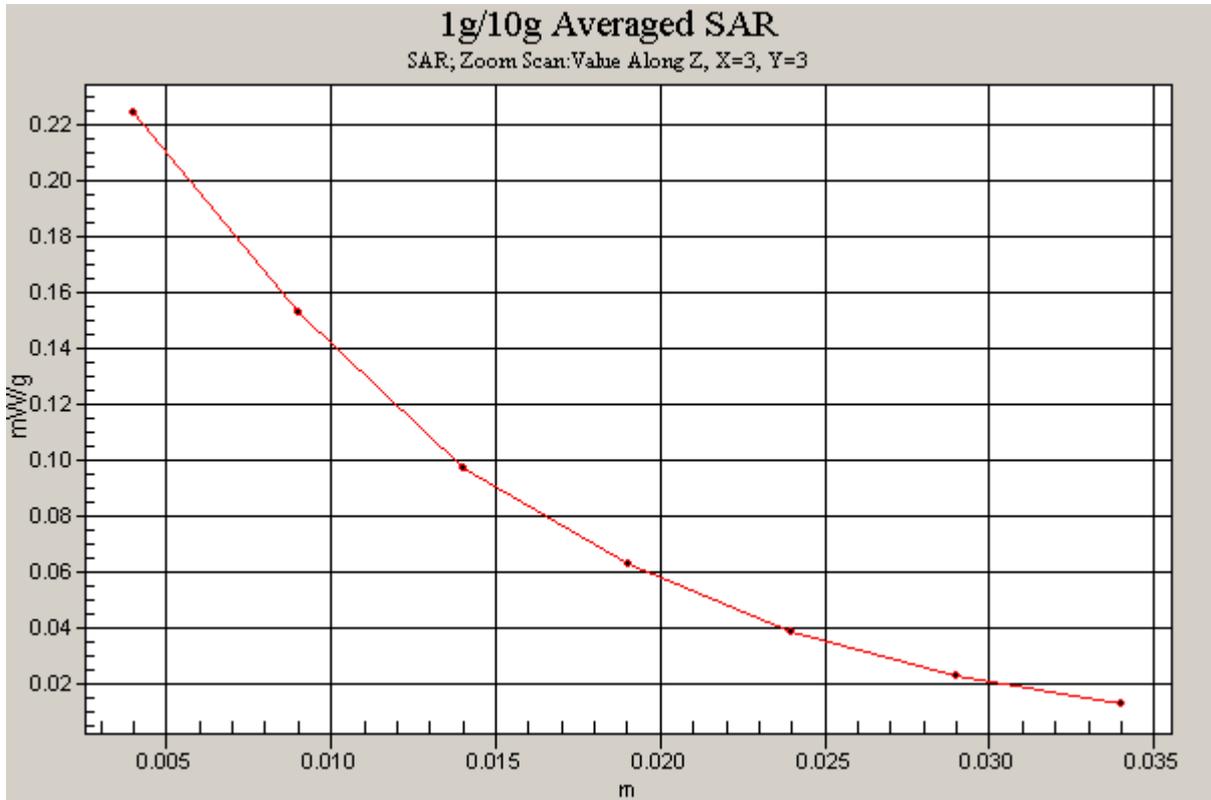


Figure 83 Z-Scan at power reference point (Right Hand Tilt 15 ° Close GSM 1900 Channel 512)

**GSM 1900 Towards Ground High Close**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground High/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.583 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.81 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.797 W/kg

**SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.321 mW/g**

Maximum value of SAR (measured) = 0.560 mW/g

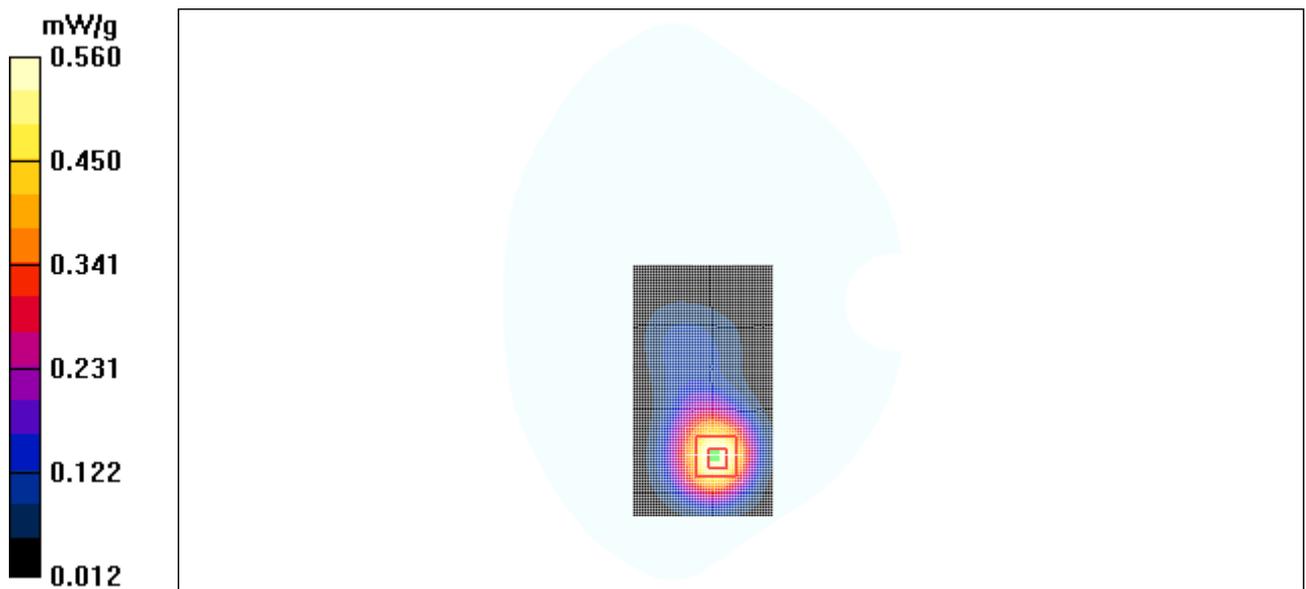


Figure 84 Body, Towards Ground, Close GSM 1900 Channel 810

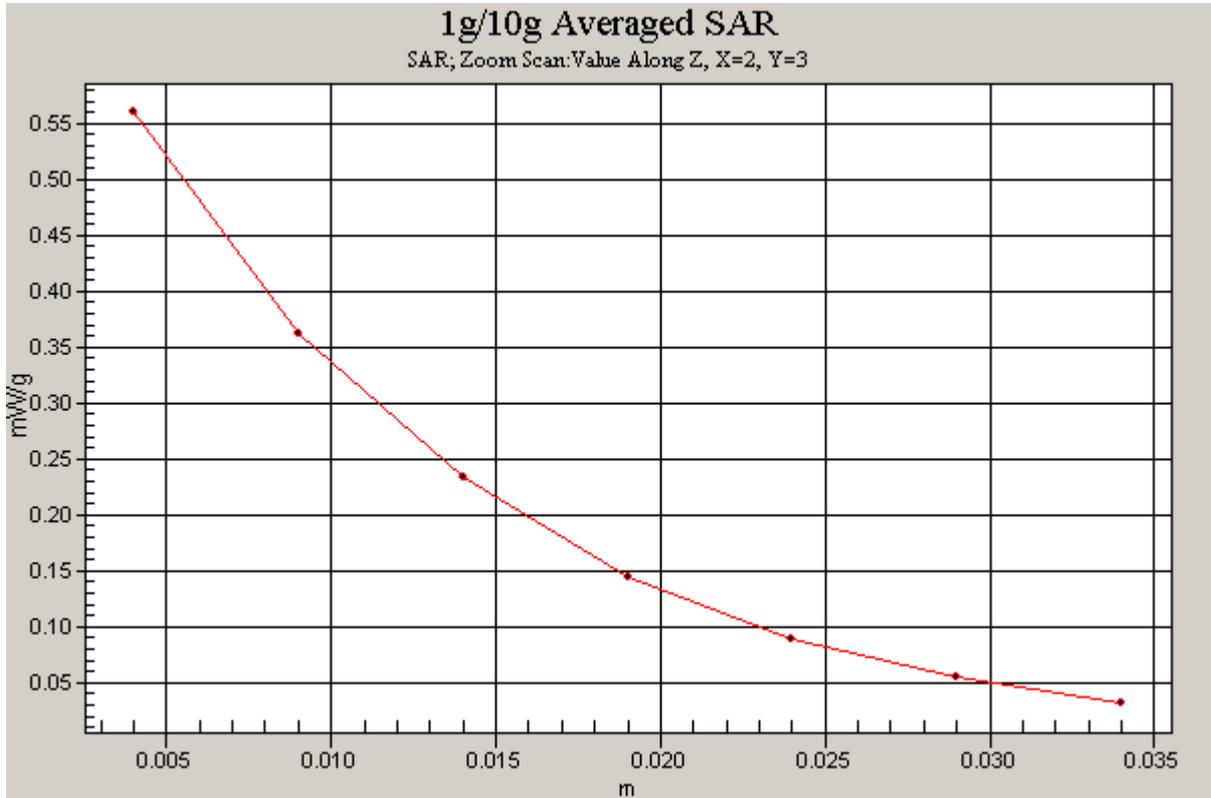


Figure 85 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 810)

**GSM 1900 Towards Ground Middle Close**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.586 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.64 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.811 W/kg

**SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.321 mW/g**

Maximum value of SAR (measured) = 0.570 mW/g

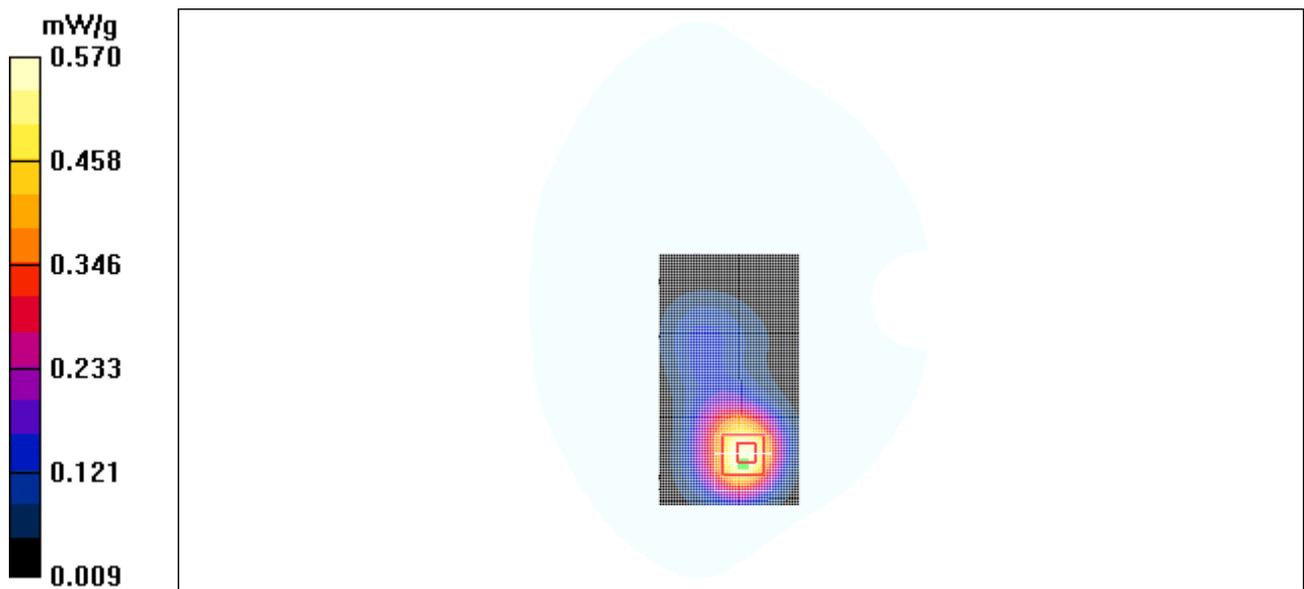


Figure 86 Body, Towards Ground, Close GSM 1900 Channel 661

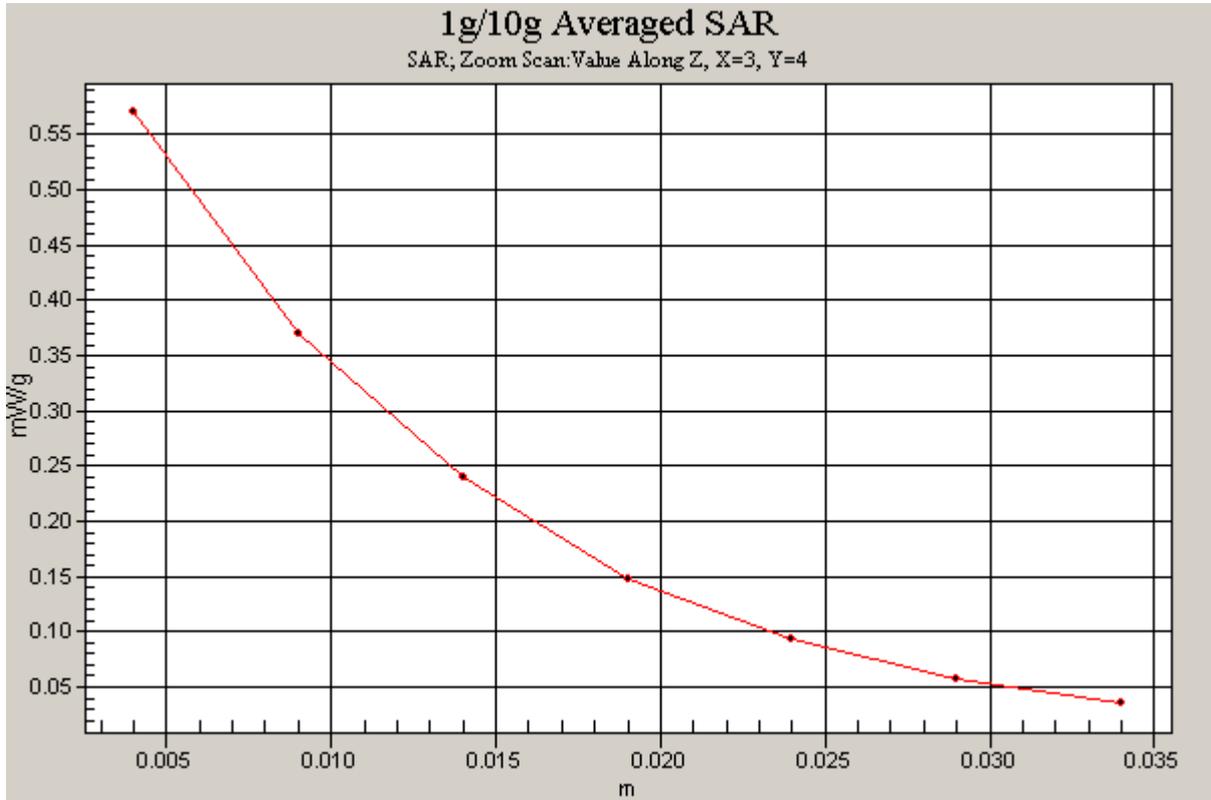


Figure 87 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 661)

**GSM 1900 Towards Ground Low Close**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.444 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.58 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.616 W/kg

**SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.244 mW/g**

Maximum value of SAR (measured) = 0.433 mW/g

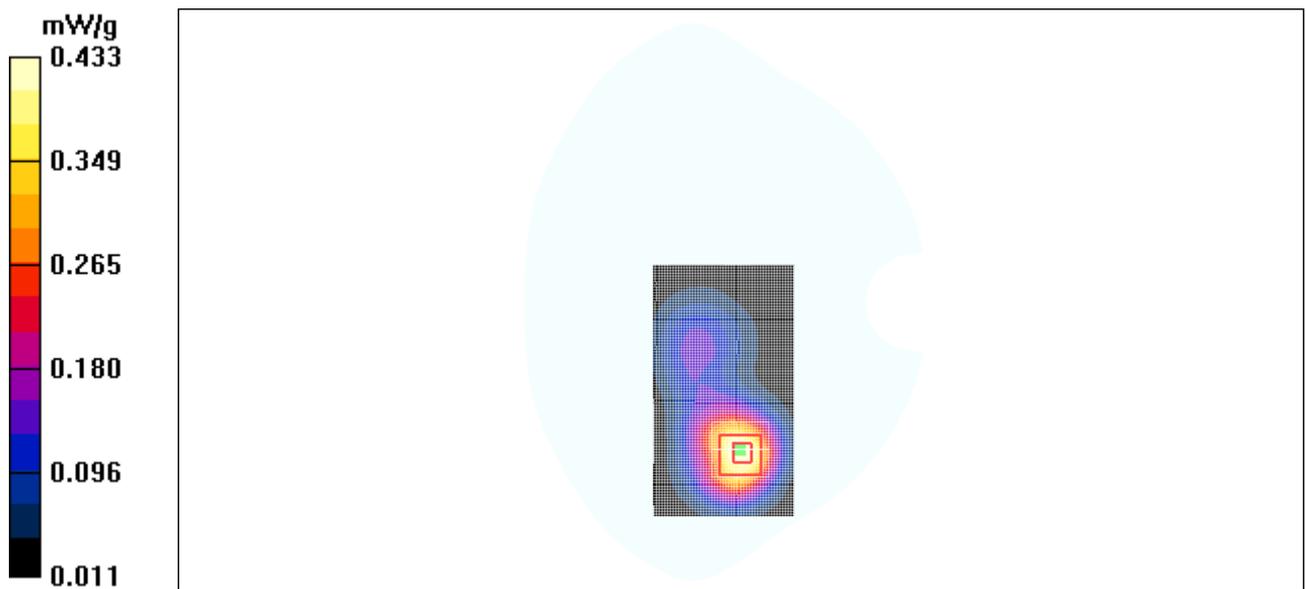


Figure 88 Body, Towards Ground, Close GSM 1900 Channel 512

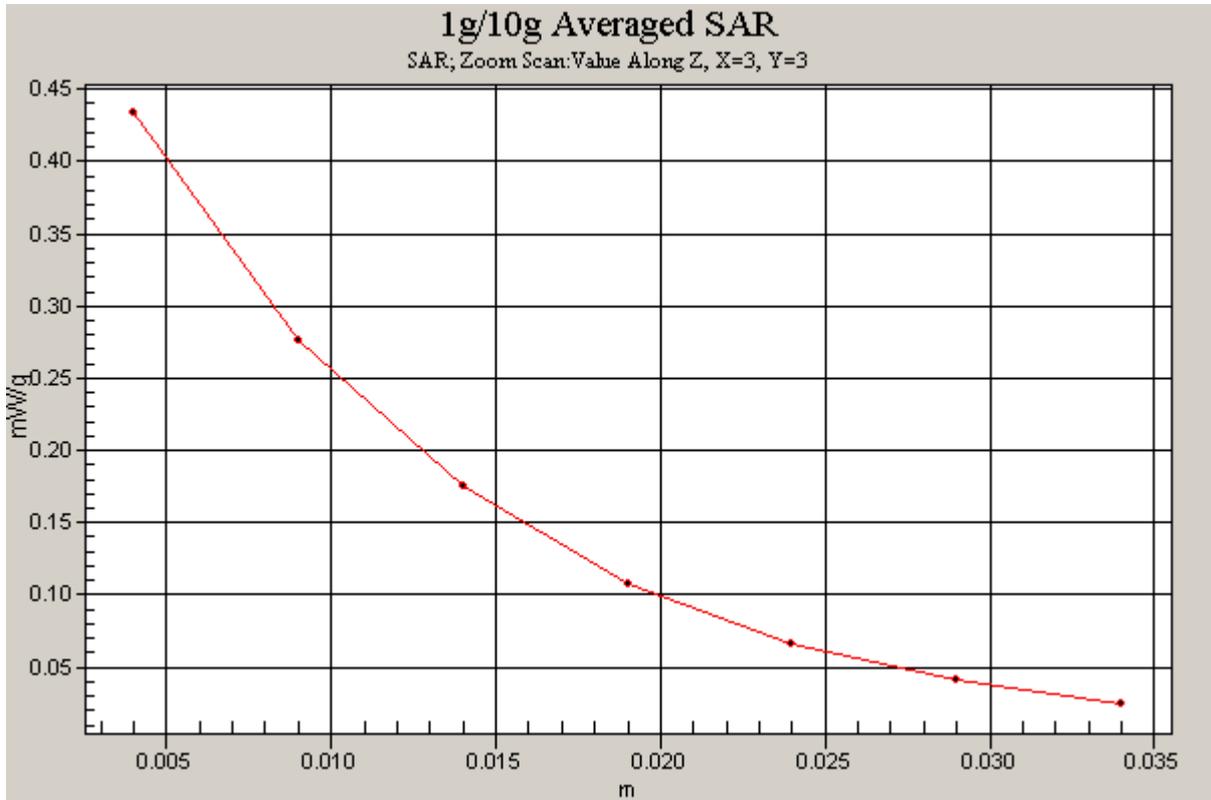


Figure 89 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 512)

### GSM 1900 Towards Phantom High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Phantom High/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.102 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.64 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.140 W/kg

**SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.057 mW/g**

Maximum value of SAR (measured) = 0.096 mW/g

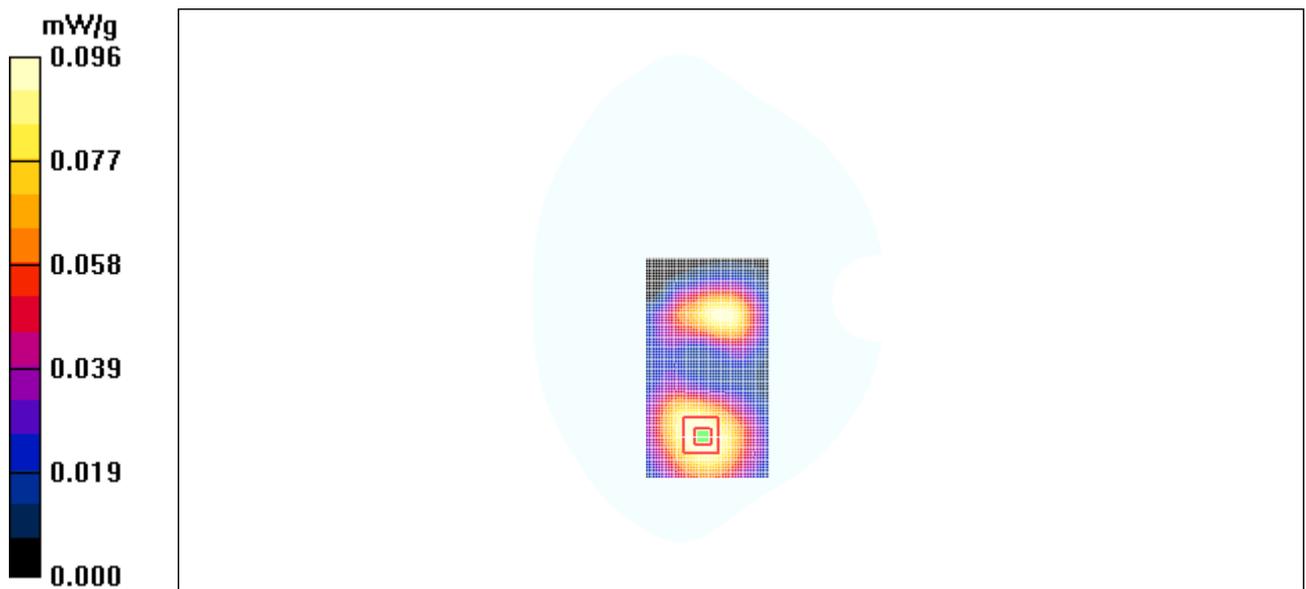


Figure 90 Body, Towards Phantom, Close GSM 1900 Channel 810

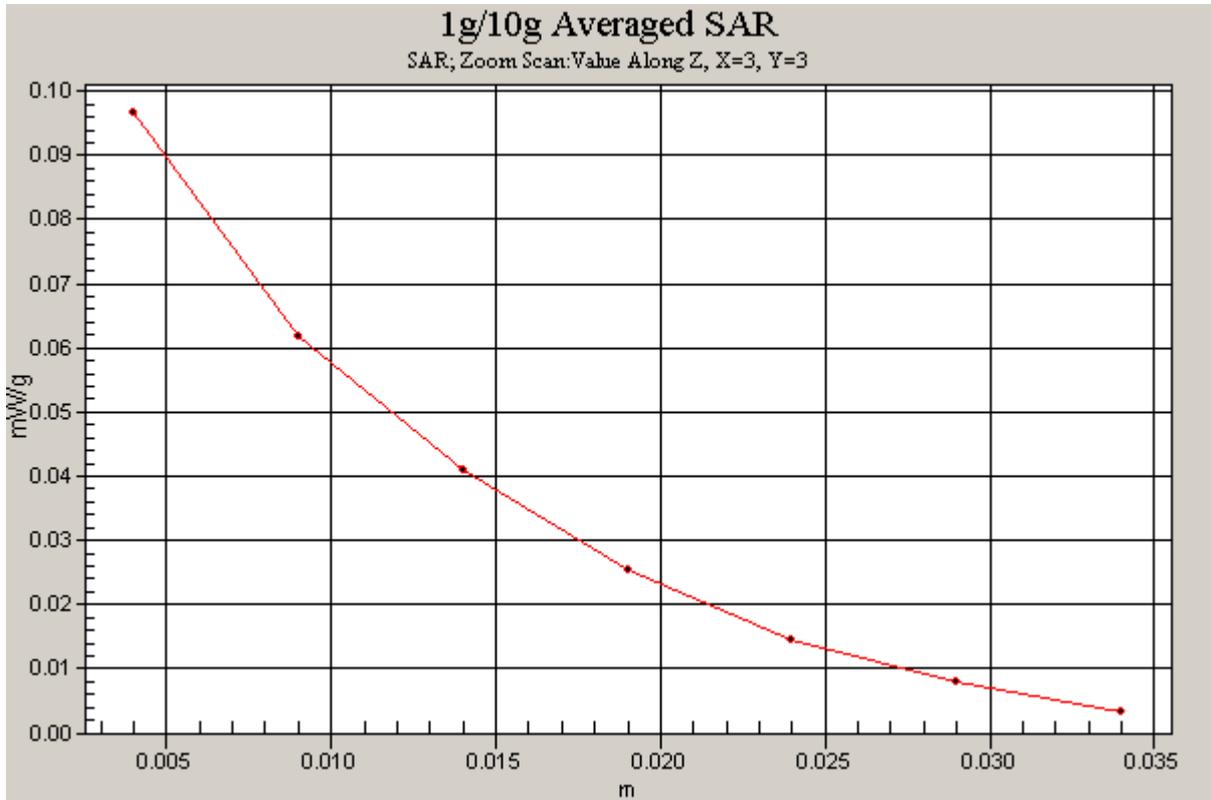


Figure 91 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 810)

**GSM 1900 Towards Phantom Middle Close**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Phantom Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.126 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.81 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.181 W/kg

**SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.127 mW/g

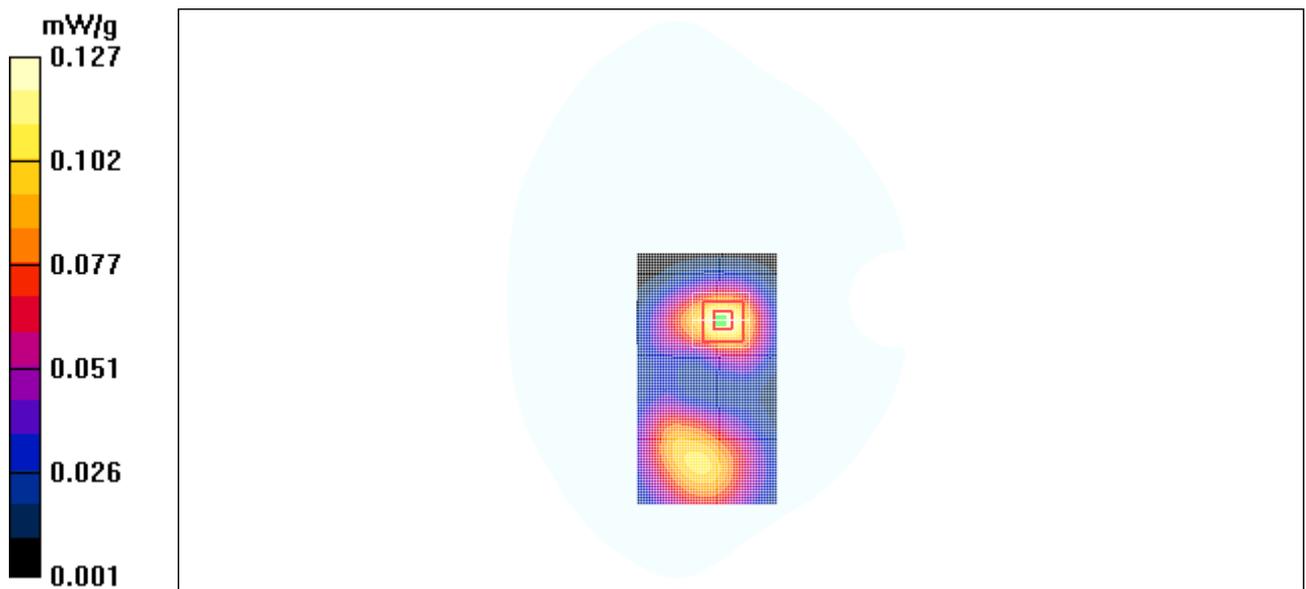


Figure 92 Body, Towards Phantom, Close GSM 1900 Channel 661

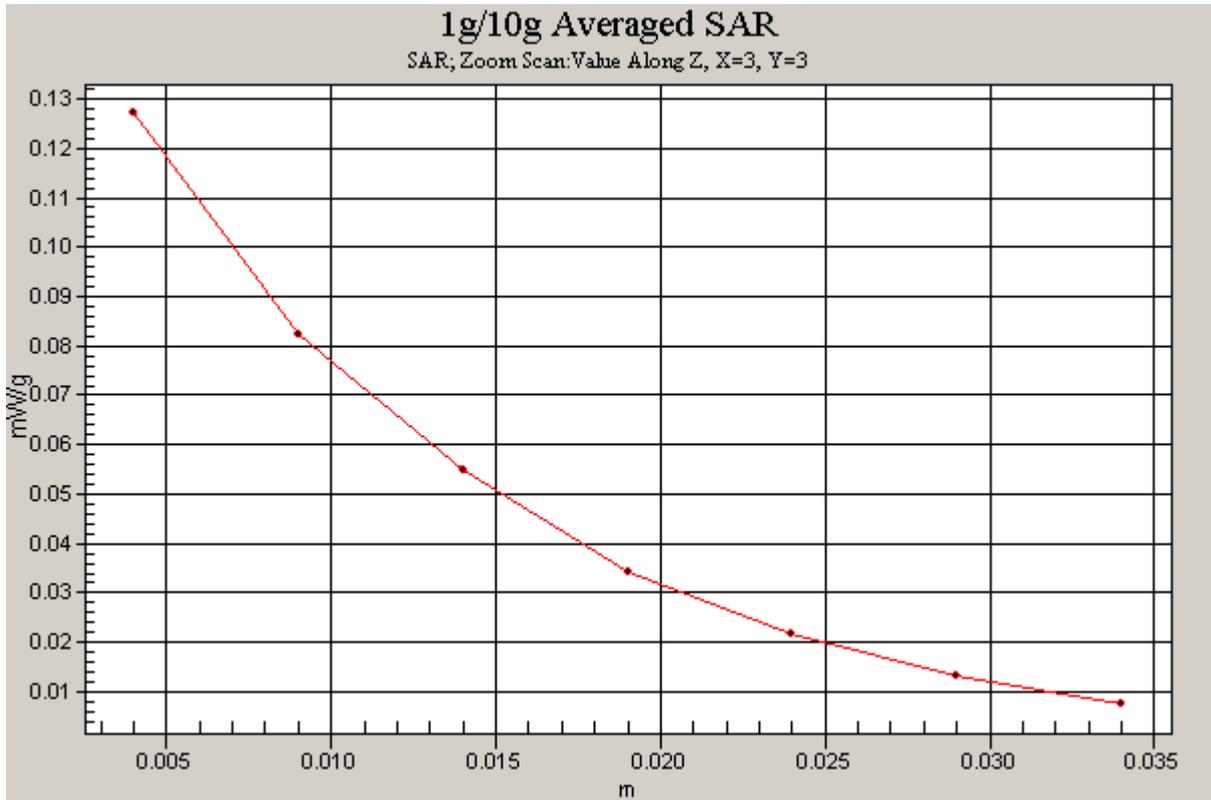


Figure 93 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 661)

**GSM 1900 Towards Phantom Low Close**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Phantom Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.136 mW/g

**Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.11 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.187 W/kg

**SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.077 mW/g**

Maximum value of SAR (measured) = 0.136 mW/g

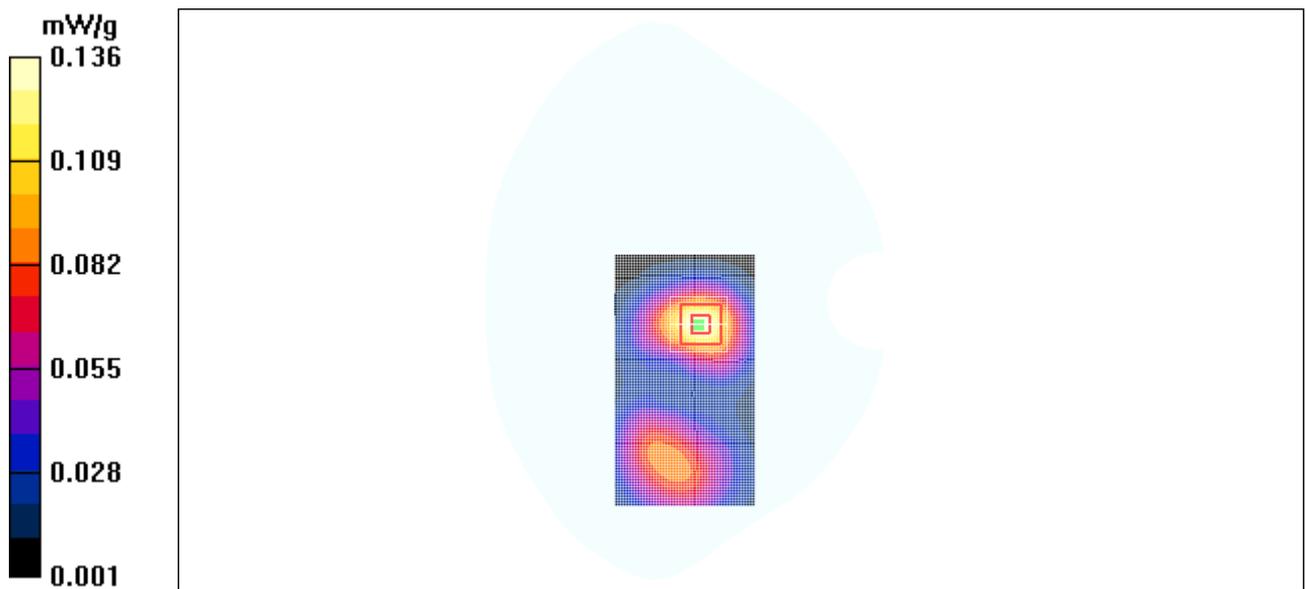


Figure 94 Body, Towards Phantom, Close GSM 1900 Channel 512

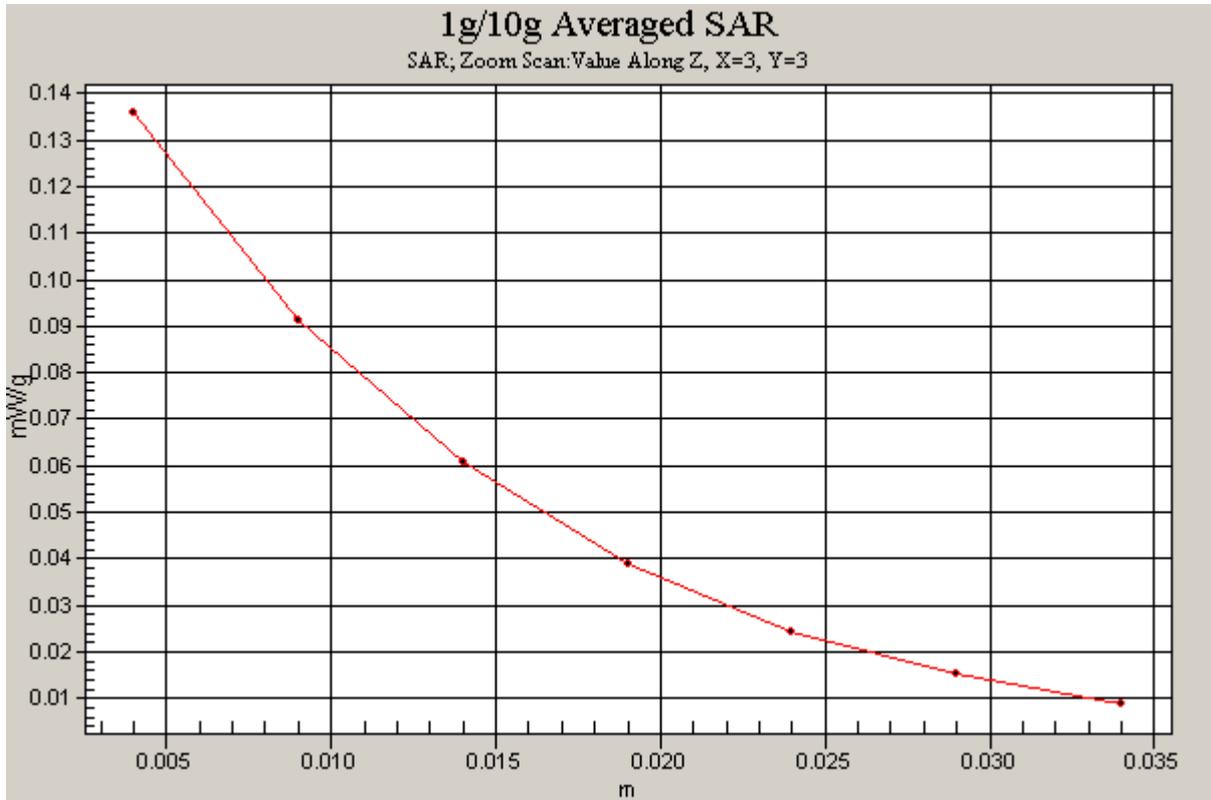


Figure 95 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 512)

**GSM 1900 Earphone Towards Ground Middle Close**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.591 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.37 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.803 W/kg

**SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.315 mW/g**

Maximum value of SAR (measured) = 0.559 mW/g

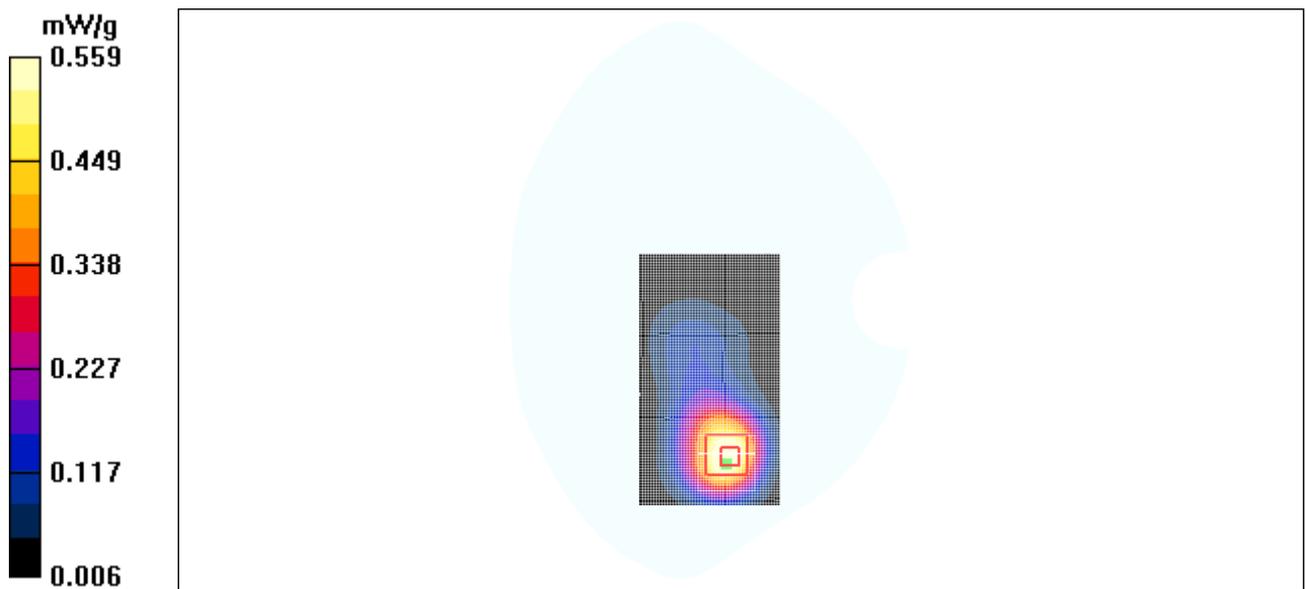


Figure 96 Body with Earphone, Towards Ground, Close GSM 1900, Channel 661

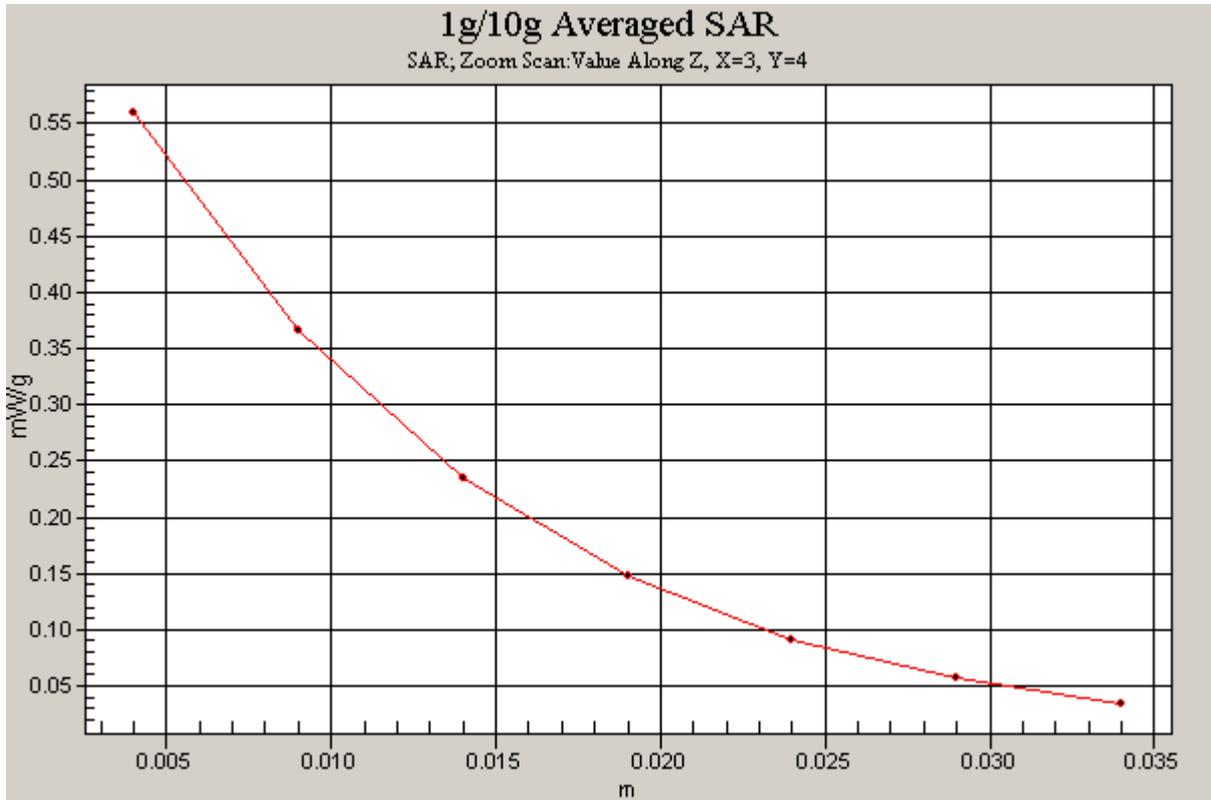


Figure 97 Z-Scan at power reference point (Body with Earphone, Towards Ground, Close GSM 1900, Channel 661)

**GSM 1900 Bluetooth Earphone Towards Ground Middle Close**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.668 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.85 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.886 W/kg

**SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.352 mW/g**

Maximum value of SAR (measured) = 0.624 mW/g

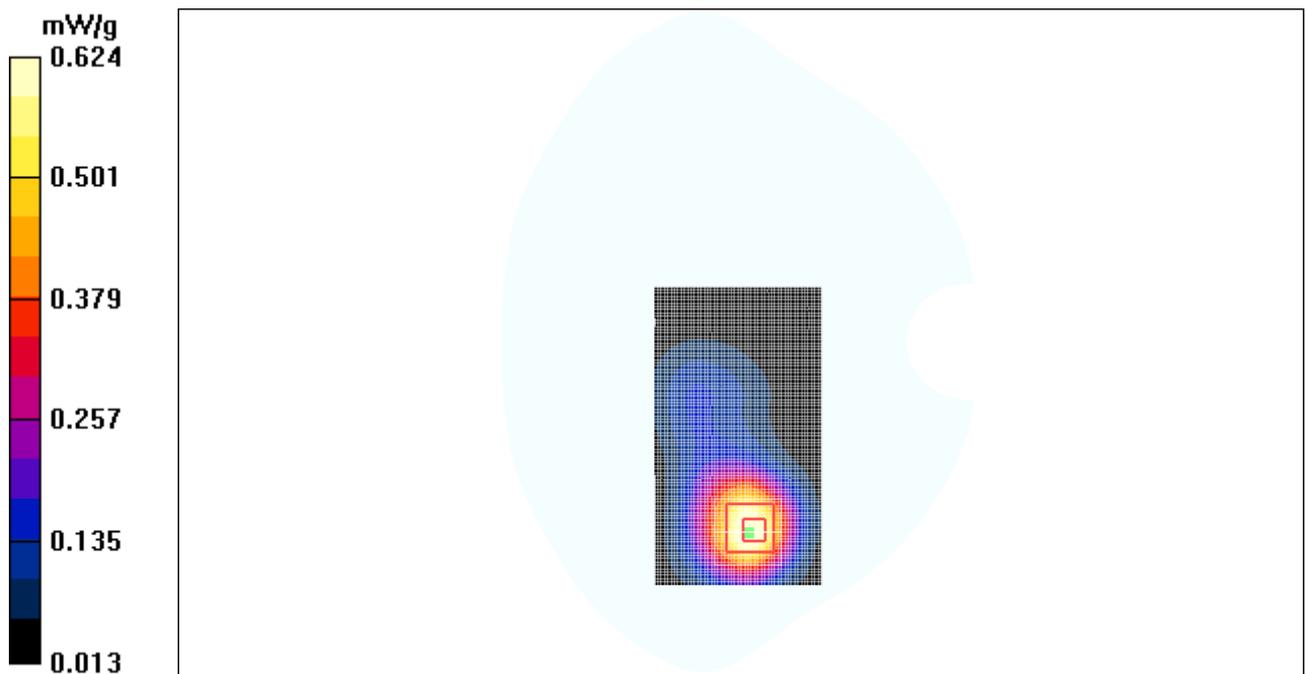


Figure 98 Body with Bluetooth earphone, Towards Ground, Close GSM 1900, Channel 661

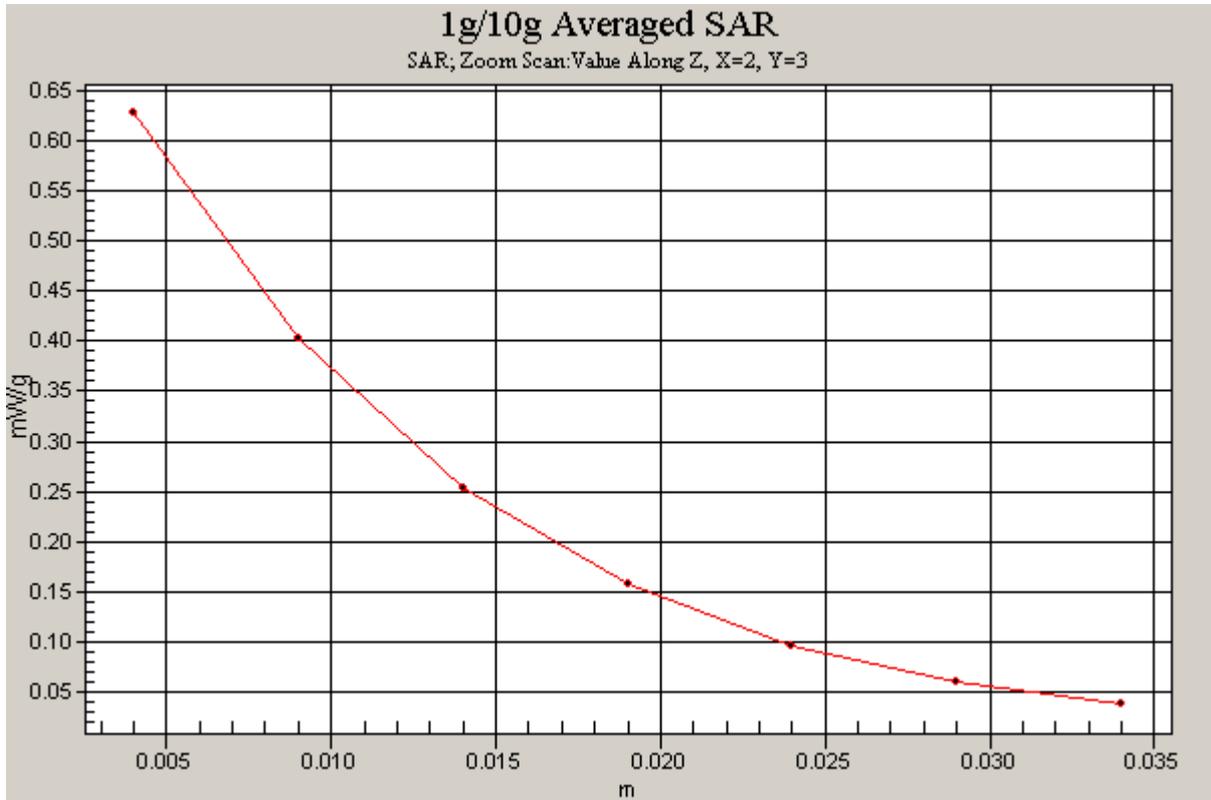


Figure 99 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Close GSM 1900, Channel 661)

**GSM 1900 GPRS Towards Ground High Close**

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground High/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.11 mW/g

**Towards Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.97 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.605 mW/g**

Maximum value of SAR (measured) = 1.07 mW/g

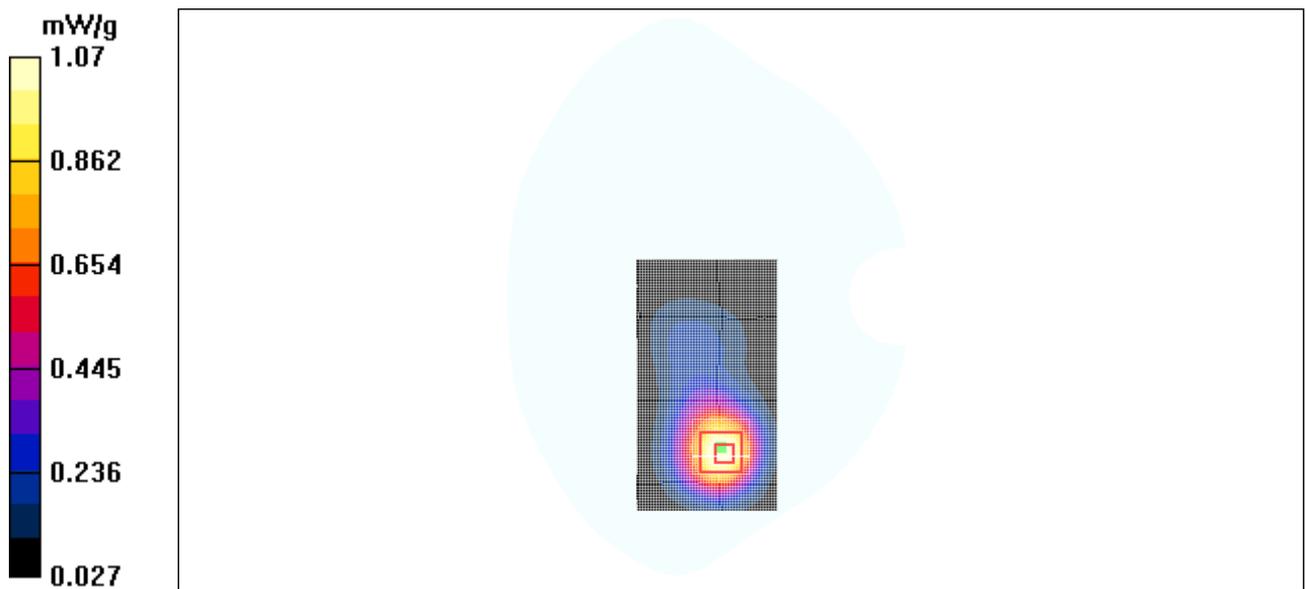


Figure 100 Body, Towards Ground, Close GSM 1900 GPRS, Channel 810

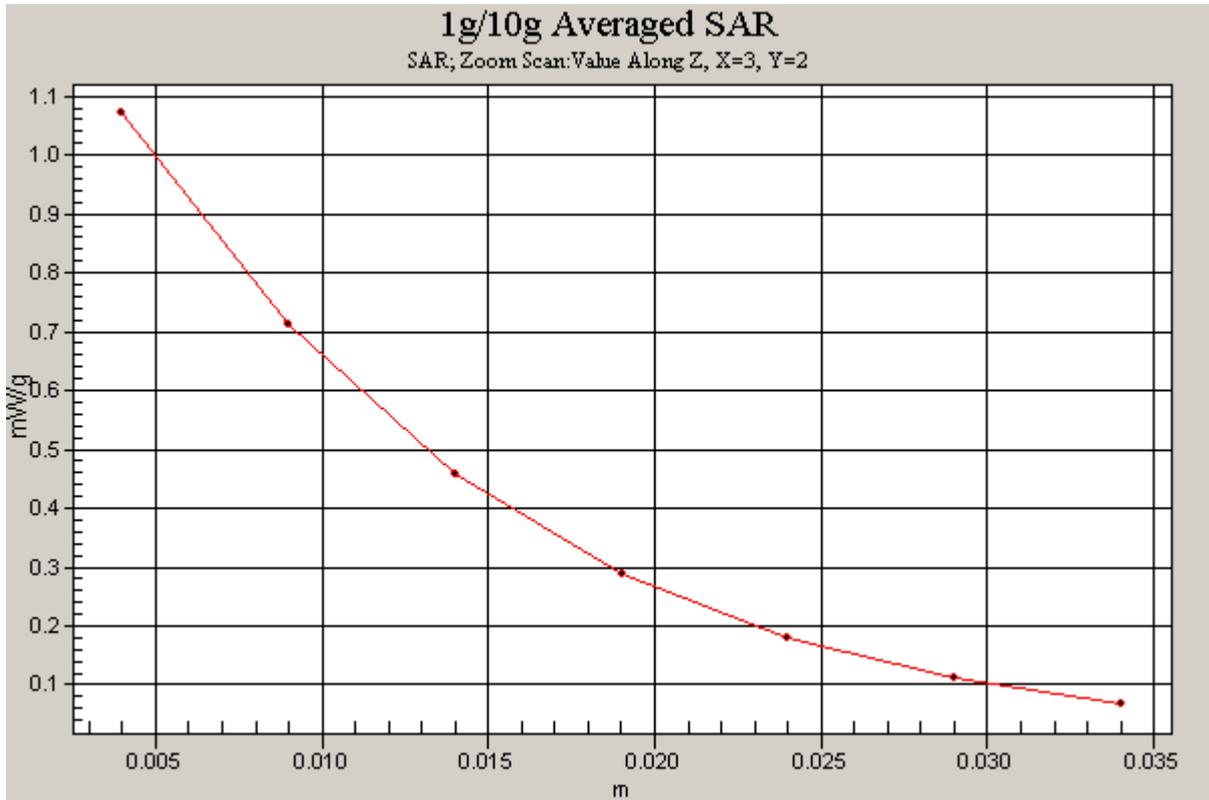


Figure 101 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS, Channel 810)

**GSM 1900 GPRS Towards Ground Middle Close**

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

**Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.04 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.592 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g

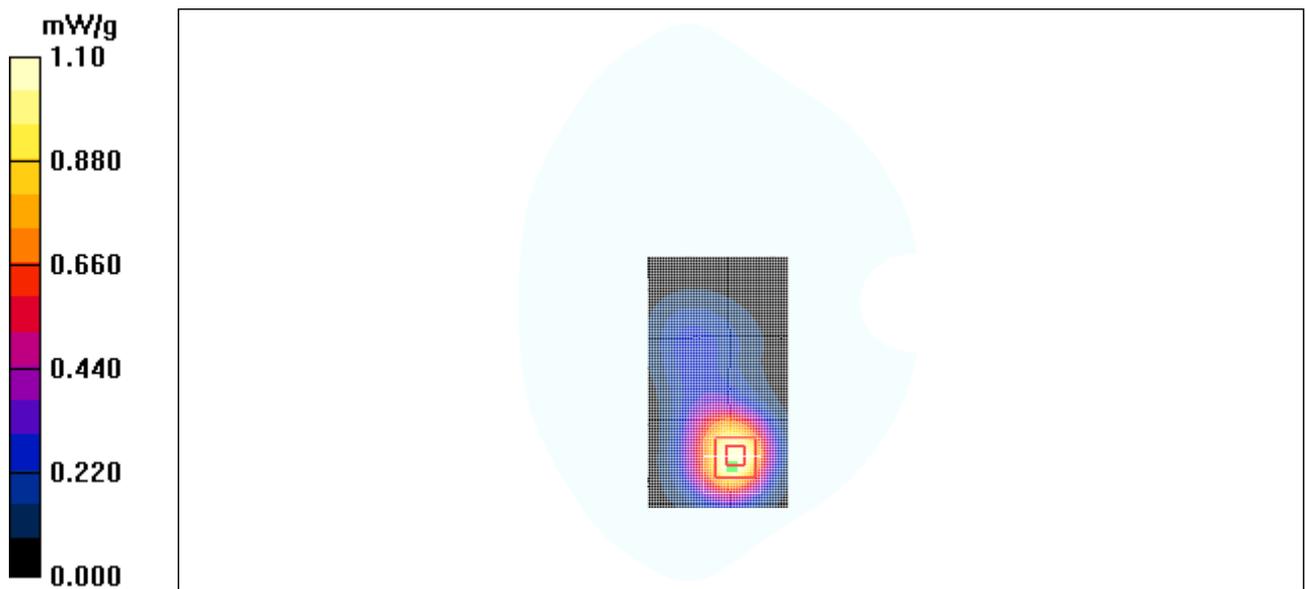


Figure 102 Body, Towards Ground, Close GSM 1900 GPRS Channel 661

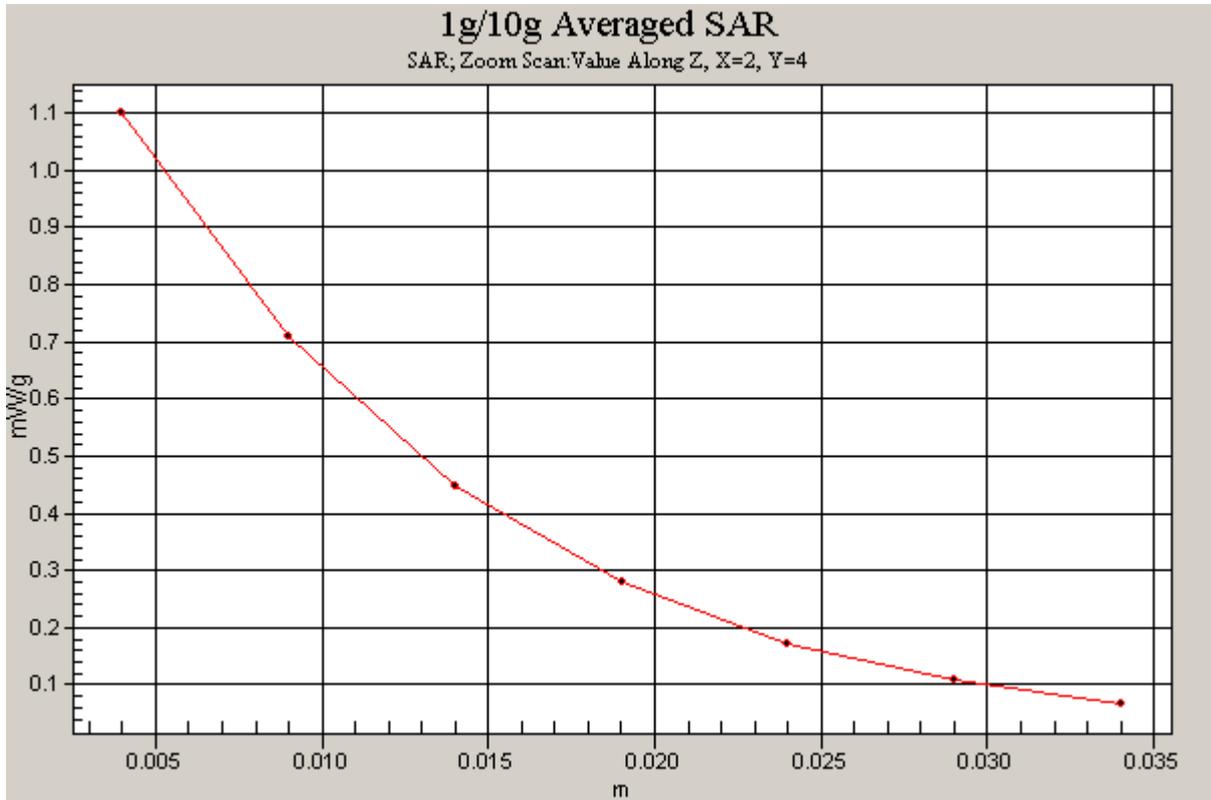


Figure 103 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS Channel 661)

**GSM 1900 GPRS Towards Ground Low Close**

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Ground Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.895 mW/g

**Towards Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.00 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.483 mW/g**

Maximum value of SAR (measured) = 0.864 mW/g

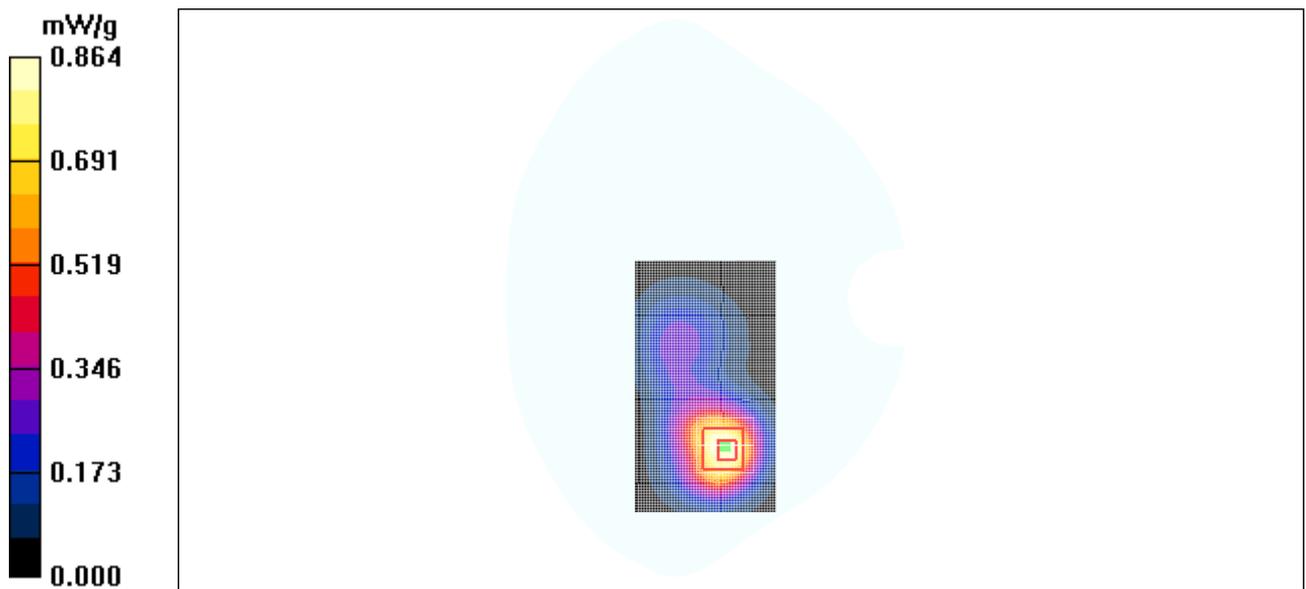


Figure 104 Body, Towards Ground, Close GSM 1900 GPRS Channel 512

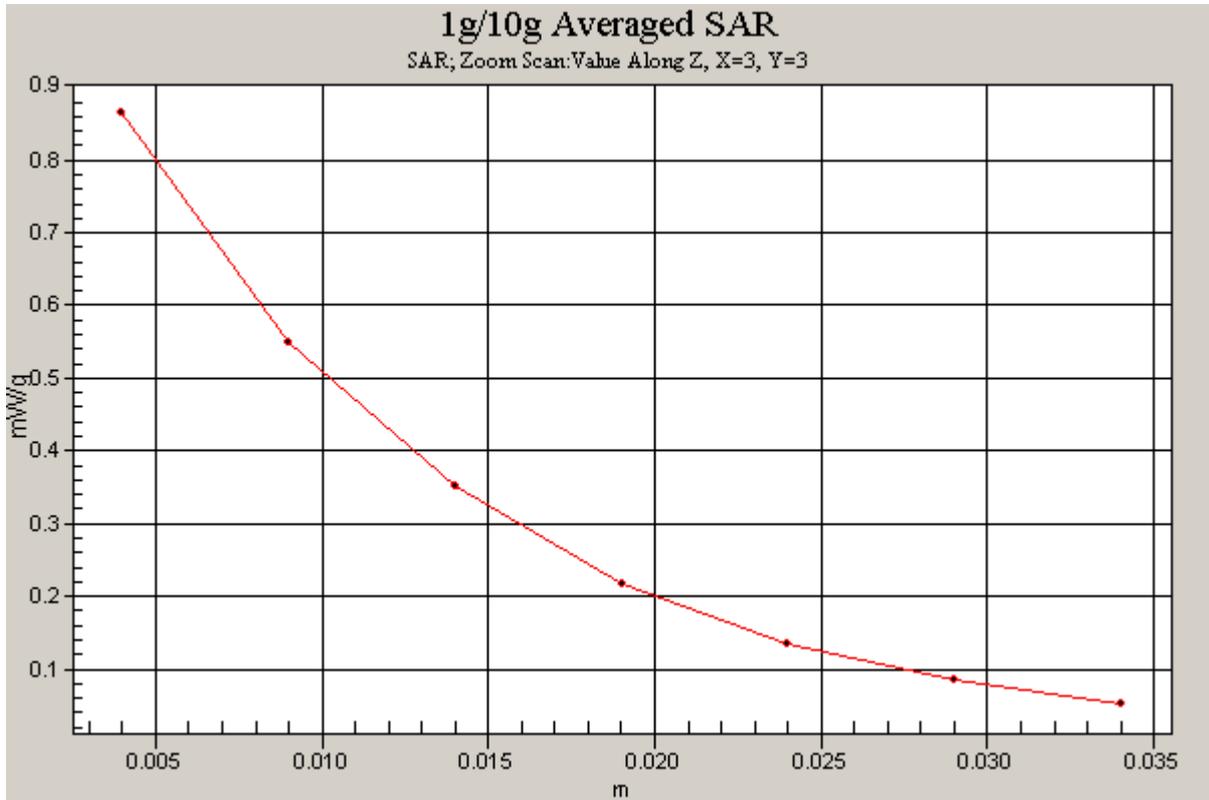


Figure 105 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS Channel 512)

**GSM 1900 GPRS Towards Phantom High Close**

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Phantom High/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.208 mW/g

**Towards Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.31 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.290 W/kg

**SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.122 mW/g**

Maximum value of SAR (measured) = 0.204 mW/g

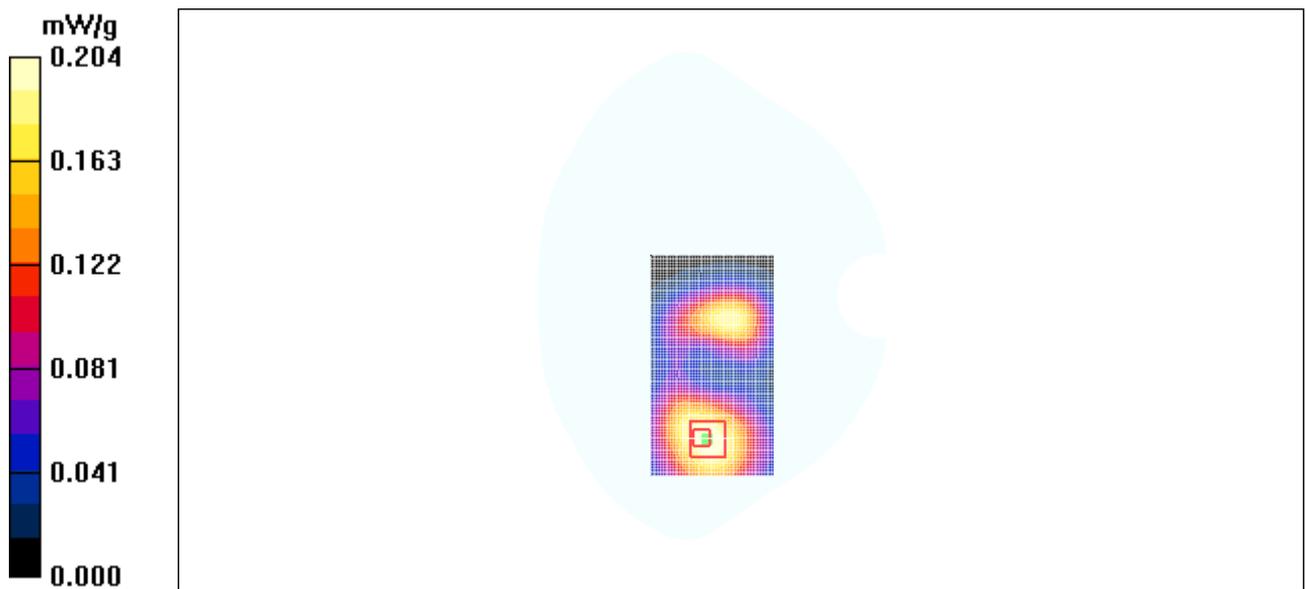


Figure 106 Body, Towards Phantom, Close GSM 1900 GPRS, Channel 810

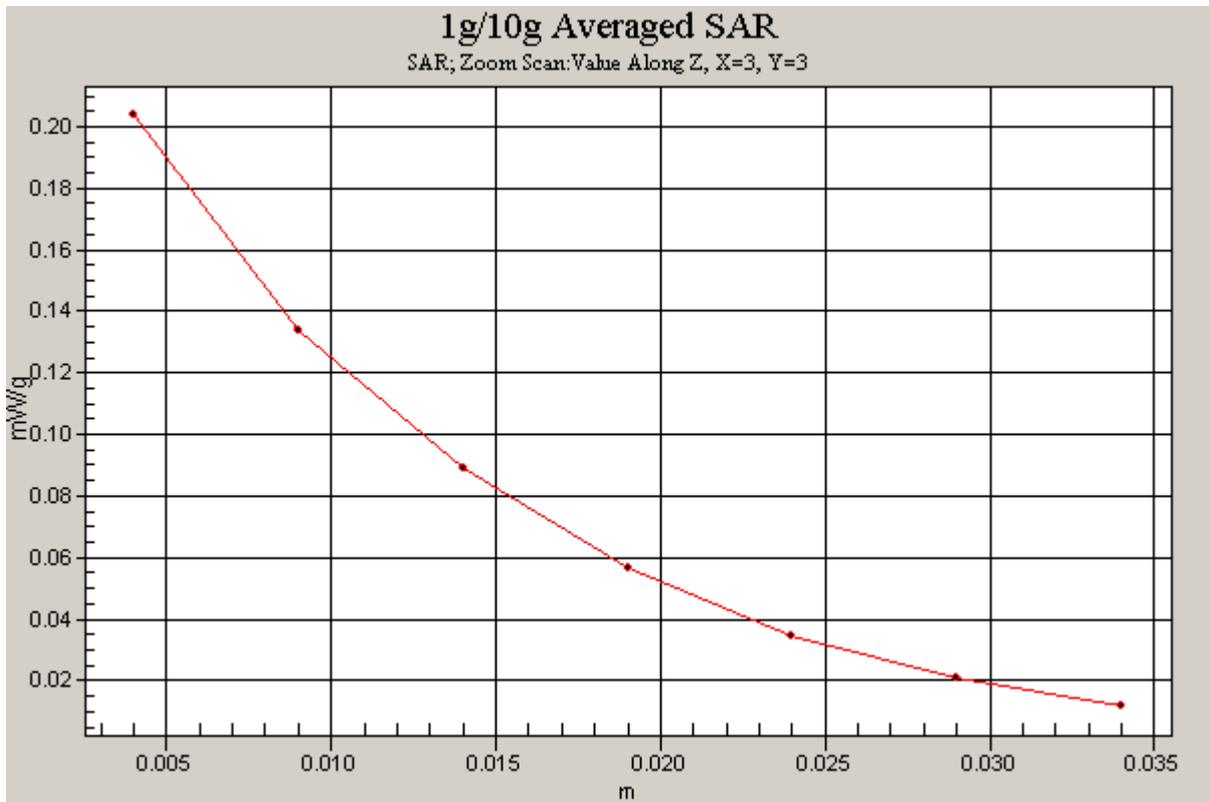


Figure 107 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS, Channel 810)

**GSM 1900 GPRS Towards Phantom Middle Close**

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Phantom Middle/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.247 mW/g

**Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.66 V/m; Power Drift = -0.147 dB

Peak SAR (extrapolated) = 0.349 W/kg

**SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.140 mW/g**

Maximum value of SAR (measured) = 0.248 mW/g

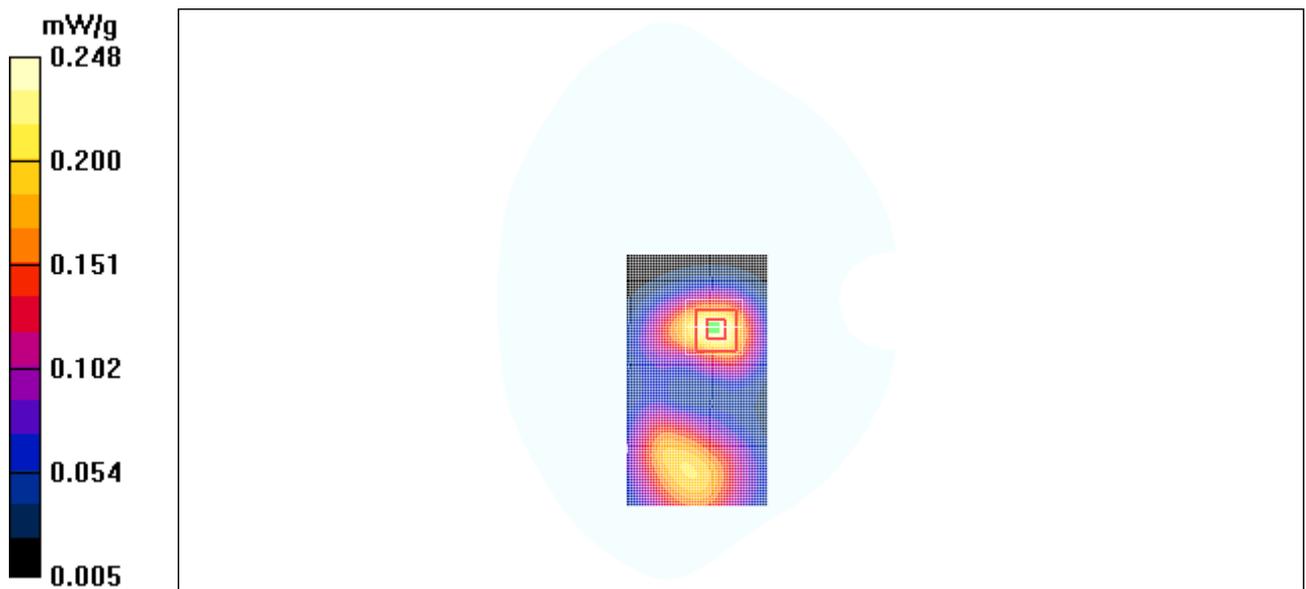


Figure 108 Body, Towards Phantom, Close GSM 1900 GPRS Channel 661

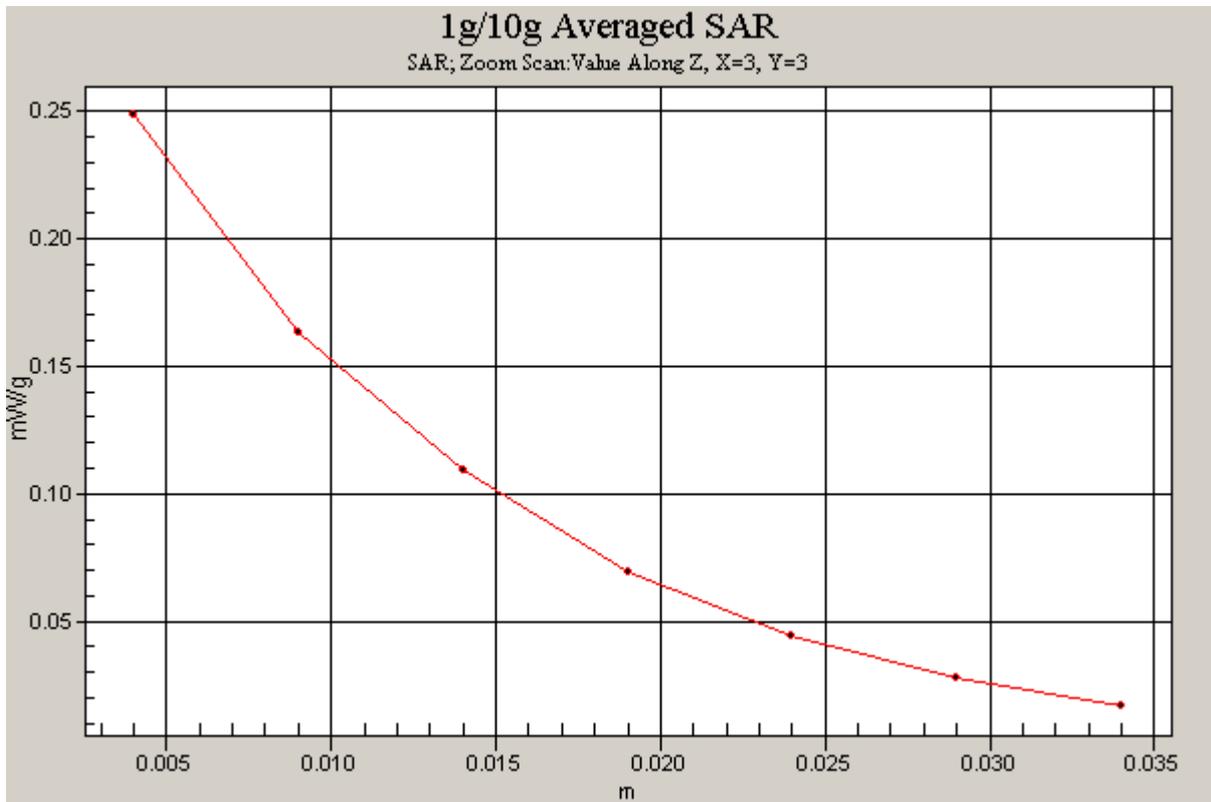


Figure 109 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS Channel 661)

**GSM 1900 GPRS Towards Phantom Low Close**

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn452;

**Towards Phantom Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.261 mW/g

**Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.87 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.357 W/kg

**SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 0.260 mW/g

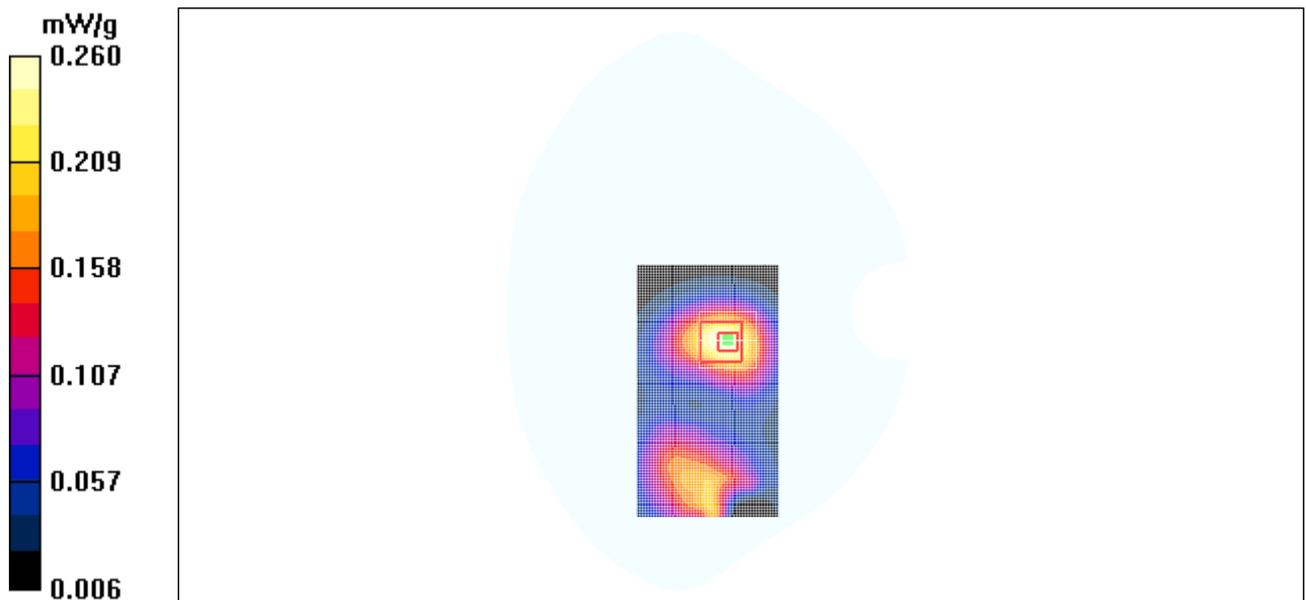


Figure 110 Body, Towards Phantom, Close GSM 1900 GPRS Channel 512

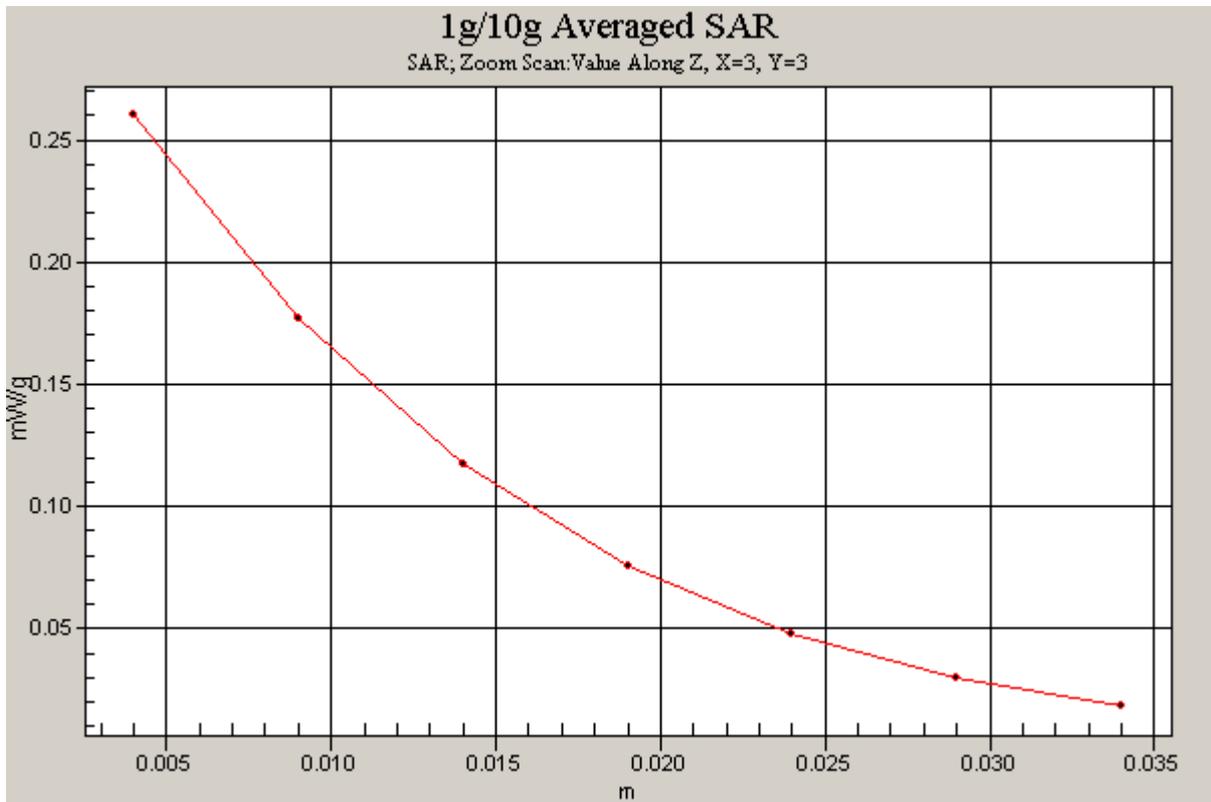


Figure 111 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS Channel 512)

## ANNEX D : SYSTEM VALIDATION RESULTS

### System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d018

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.446$  mho/m;  $\epsilon_r = 39.83$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn452;

**d=10mm, Pin=250mW /Area Scan (101x121x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 10.8 mW/g

**d=10mm, Pin=250mW /Zoom Scan (7x7x7) /Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 16.0 W/kg

**SAR(1 g) = 9.36 mW/g; SAR(10 g) = 4.93 mW/g**

Maximum value of SAR (measured) = 10.7 mW/g

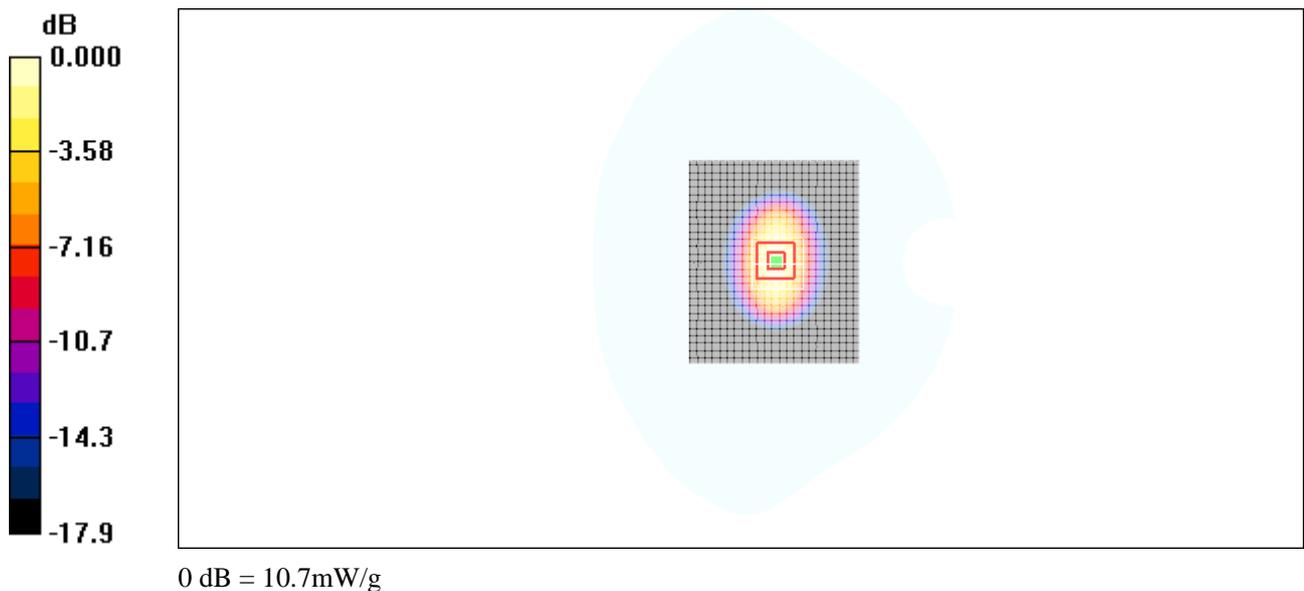


Figure 112 System Performance Check 1900MHz 250mW

# TA Technology (Shanghai) Co., Ltd. Test Report

No. RZA2008-1084FCC

Page 140 of 172

## ANNEX E : PROBE CALIBRATION CERTIFICATE

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **ATL (Auden)**

Certificate No: **ET3-1531\_Jan08**

### CALIBRATION CERTIFICATE

Object: **ET3DV6 - SN:1531**

Calibration procedure(s): **QA CAL-01.v6 and QA CAL-12.v5  
Calibration procedure for dosimetric E-field probes**

Calibration date: **January 29, 2008**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility, environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&PE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498067	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5088 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	2-Jan-08 (SPEAG, No. ES3-3013_Jan08)	Jan-09
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Kolja Pokovic	Technical Manager	
Approved by:	Nils Kuster	Quality Manager	

Issued: January 29, 2008

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.