



Figure 24 Z-Scan at power reference point (Right Hand Touch Cheek CDMA Cellular Channel1013)

**CDMA Cellular Right Tilt High**

Communication System: CDMA Cellular; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Head 835MHz

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.953$  mho/m;  $\epsilon_r = 42$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.85, 6.85, 6.85);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.320 mW/g

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

Reference Value = 14.2 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.432 W/kg

**SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.228 mW/g**

Maximum value of SAR (measured) = 0.347 mW/g

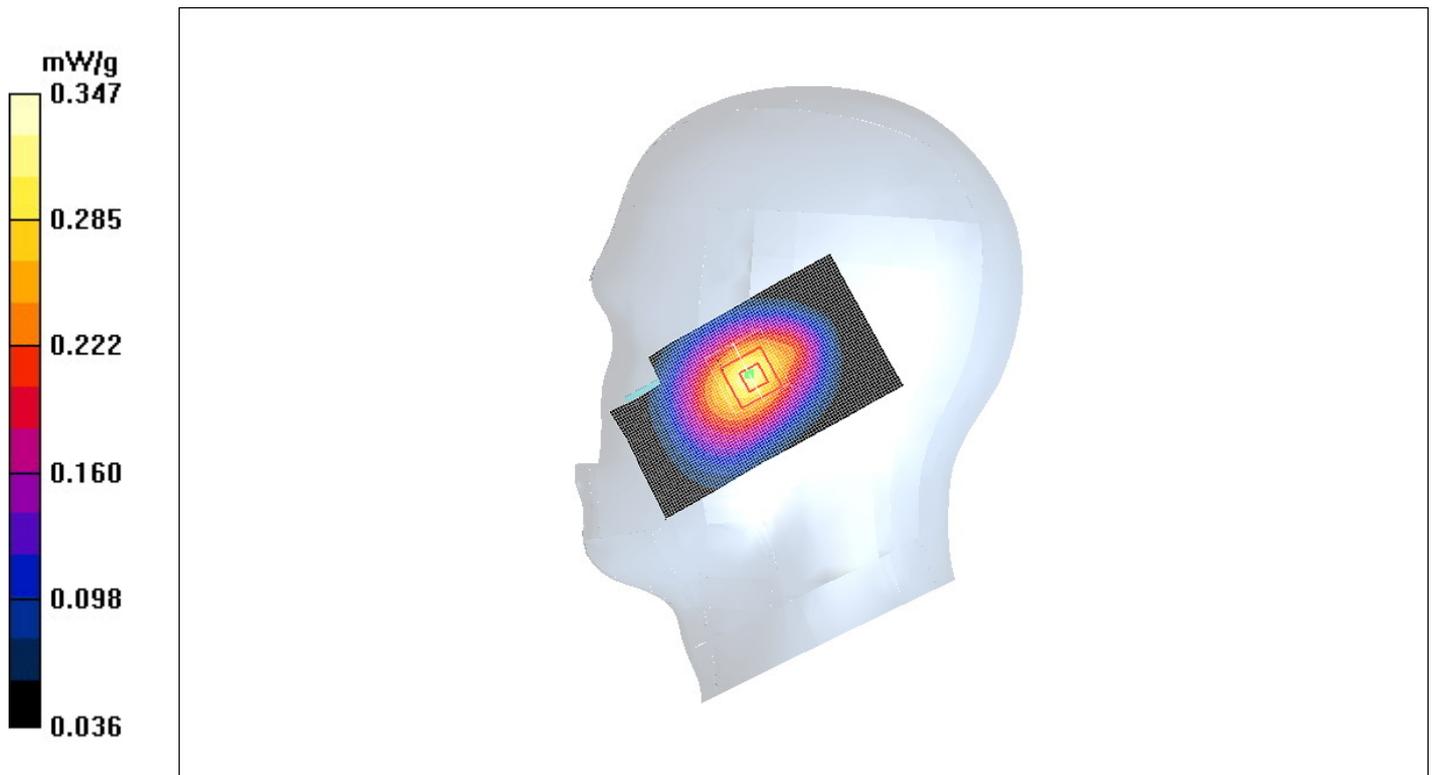


Figure 25 Right Hand Tilt 15° CDMA Cellular Channel 777

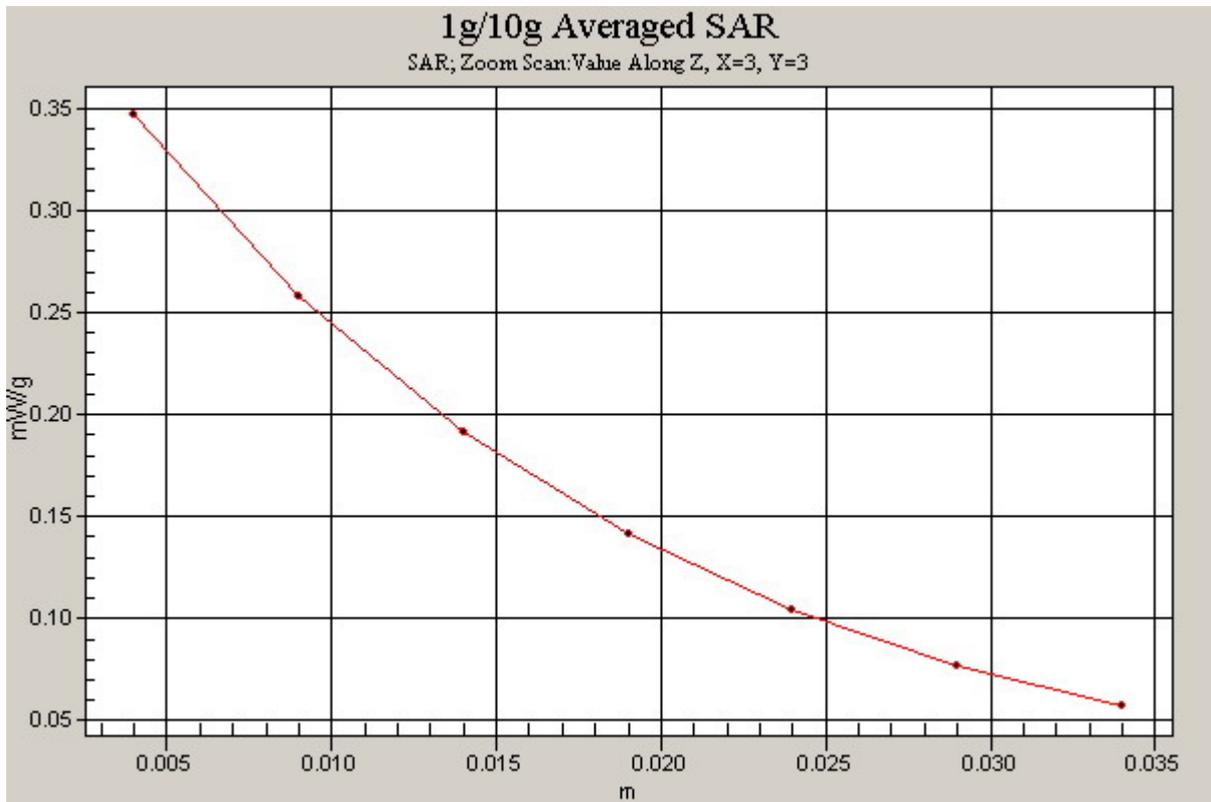


Figure 26 Z-Scan at power reference point (Right Hand Tilt 15° CDMA Cellular Channel 777)

**CDMA Cellular Right Tilt Middle**

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Head 835MHz

Medium parameters used:  $f = 837 \text{ MHz}$ ;  $\sigma = 0.941 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1737; ConvF(6.85, 6.85, 6.85);

- Electronics: DAE3 Sn452;

**Tilt Middle/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.535 mW/g

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

Reference Value = 18.0 V/m; Power Drift = 0.120 dB

Peak SAR (extrapolated) = 0.702 W/kg

**SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.376 mW/g**

Maximum value of SAR (measured) = 0.569 mW/g

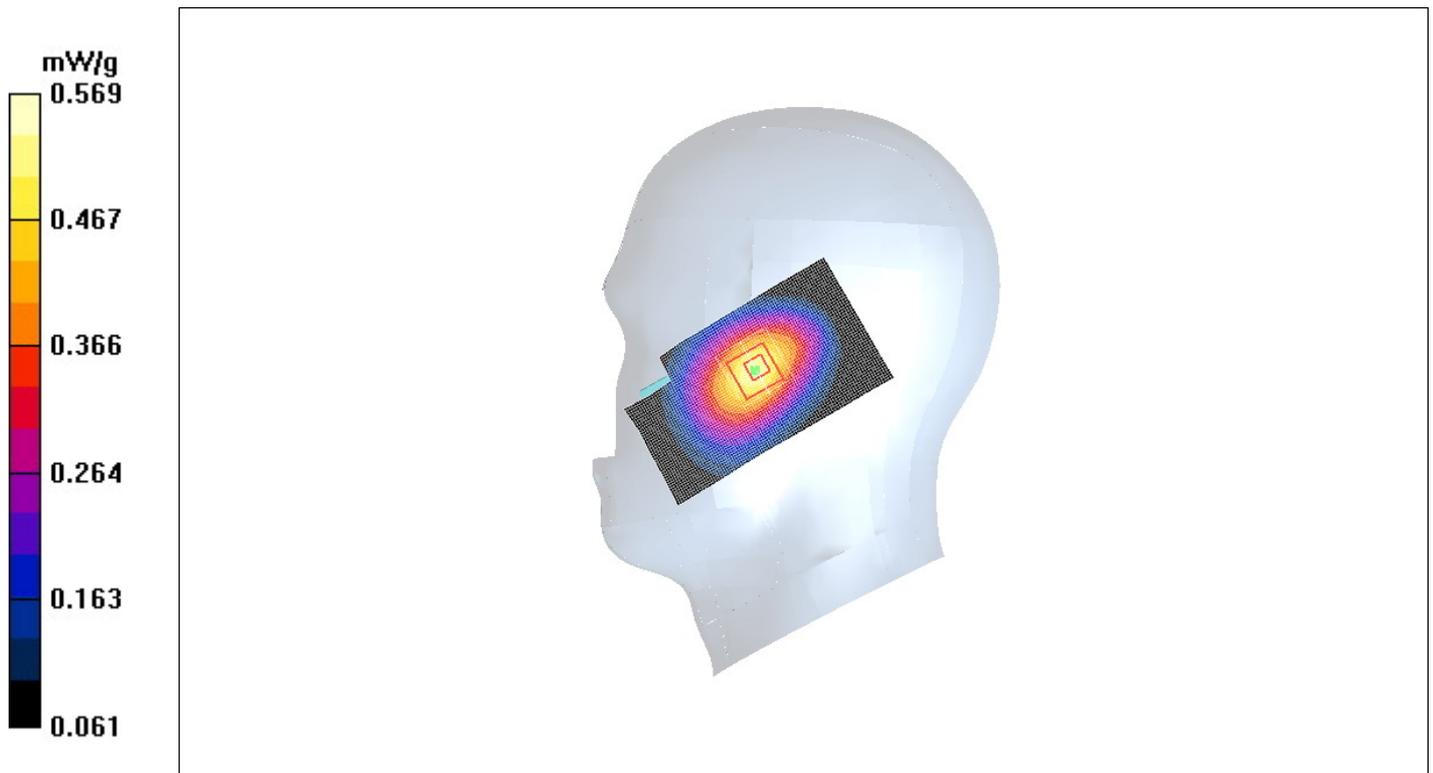


Figure 27 Right Hand Tilt 15° CDMA Cellular Channel 384



Figure28 Z-Scan at power reference point (Right Hand Tilt 15° CDMA Cellular Channel 384)

**CDMA Cellular Right Tilt Low**

Communication System: CDMA Cellular; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Head 835MHz

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.925$  mho/m;  $\epsilon_r = 42.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.85, 6.85, 6.85);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.183 mW/g

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

Reference Value = 10.9 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.236 W/kg

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.128 mW/g**

Maximum value of SAR (measured) = 0.192 mW/g

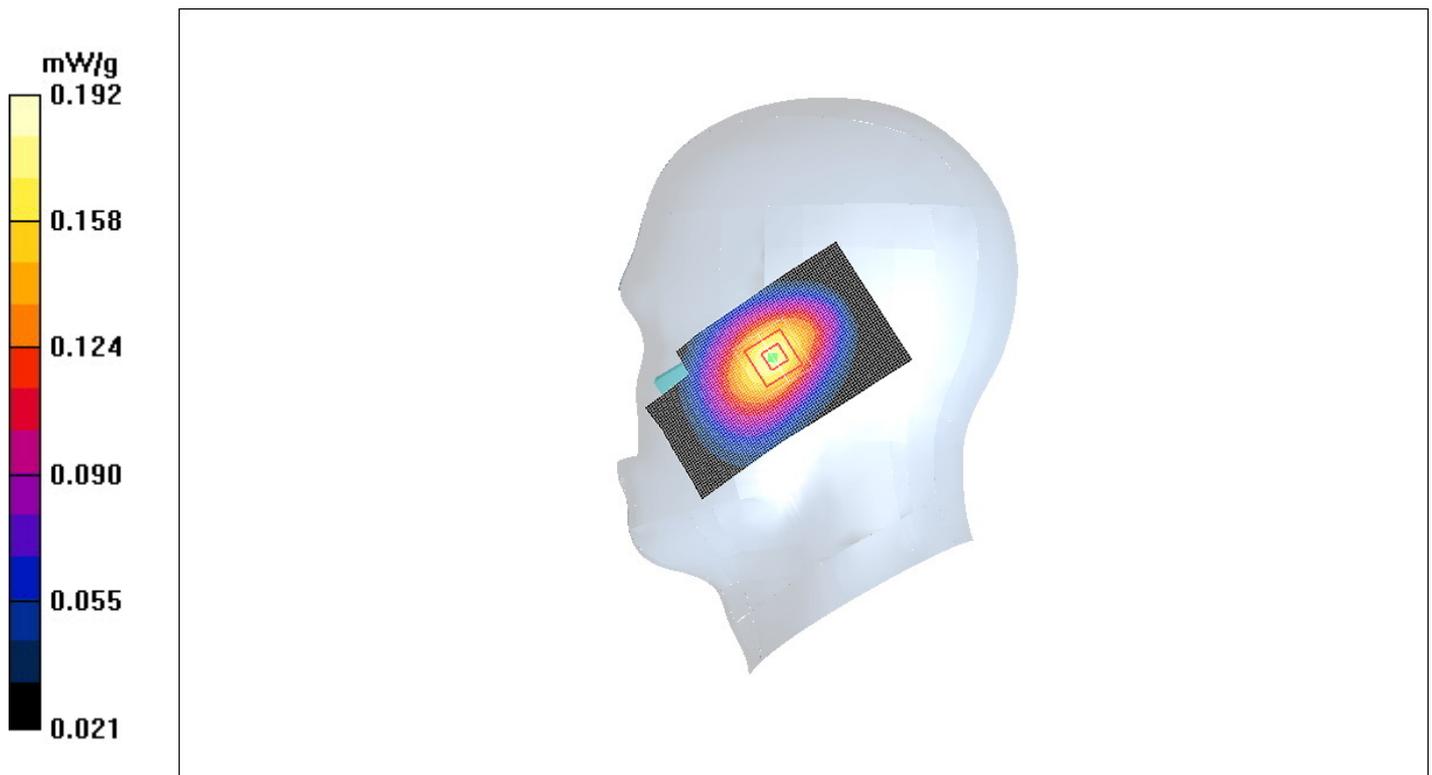


Figure 29 Right Hand Tilt 15° CDMA Cellular Channel 1013



Figure 30 Z-Scan at power reference point (Right Hand Tilt 15° CDMA Cellular Channel 1013)

**CDMA Cellular Towards Phantom High**

Communication System: CDMA Cellular; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Body 835MHz

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.579 mW/g

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

Reference Value = 10.6 V/m; Power Drift = -0.149 dB

Peak SAR (extrapolated) = 0.724 W/kg

**SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.408 mW/g**

Maximum value of SAR (measured) = 0.607 mW/g

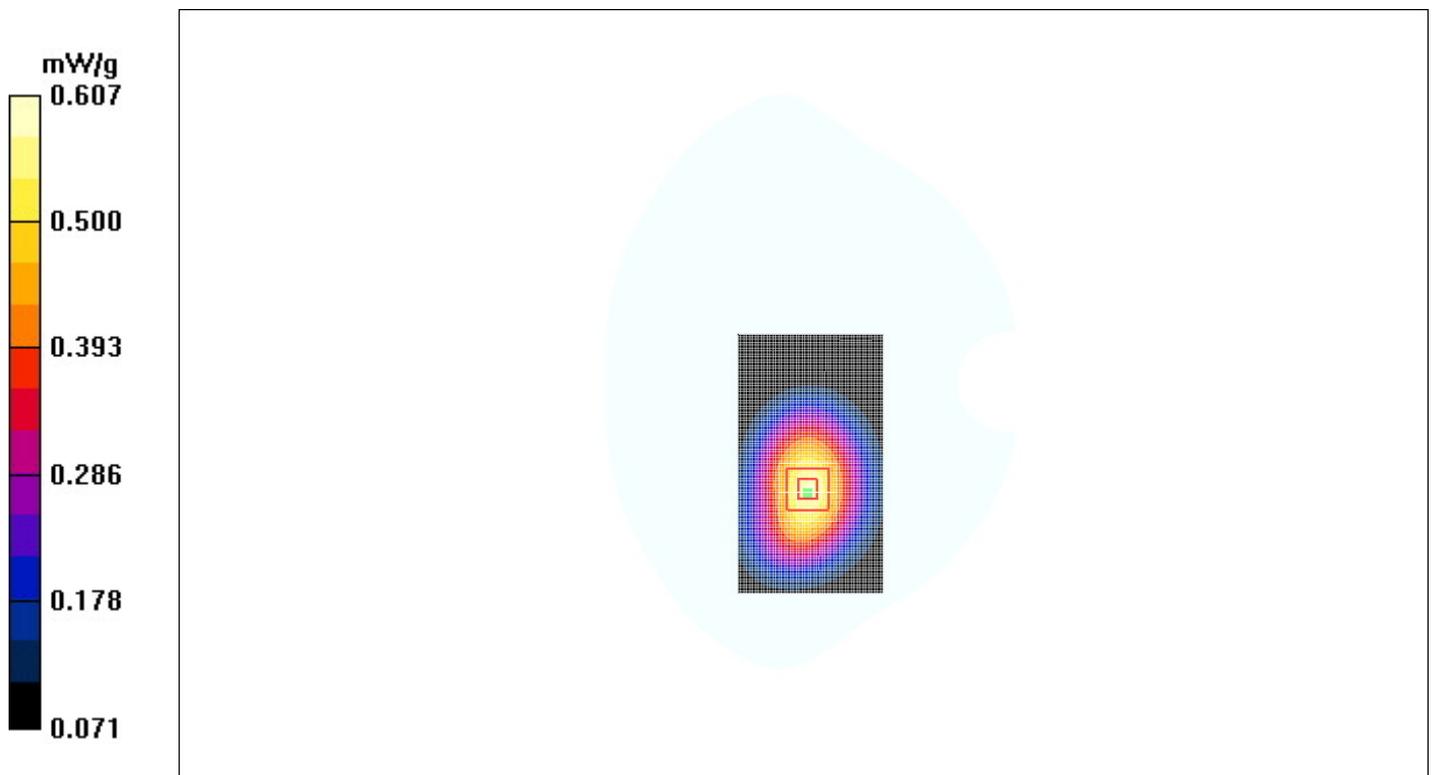


Figure 31 Body, Towards Phantom, CDMA Cellular Channel777

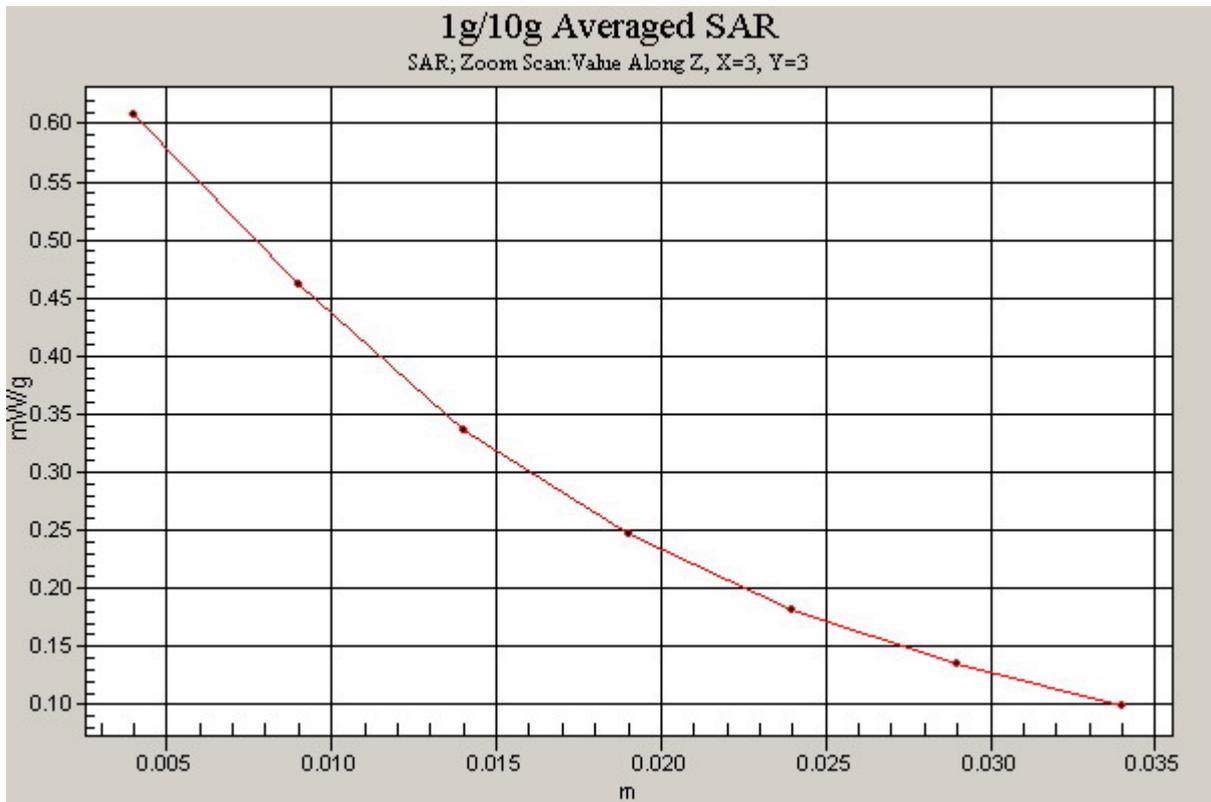


Figure 32 Z-Scan at power reference point (Body, Towards Phantom, CDMA Cellular Channel777)

**CDMA Cellular Towards Phantom Middle**

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Body 835MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.991$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

**Towards Phantom Middle/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.869 mW/g

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

Reference Value = 13.2 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.976 W/kg

**SAR(1 g) = 0.775 mW/g; SAR(10 g) = 0.555 mW/g**

Maximum value of SAR (measured) = 0.822 mW/g

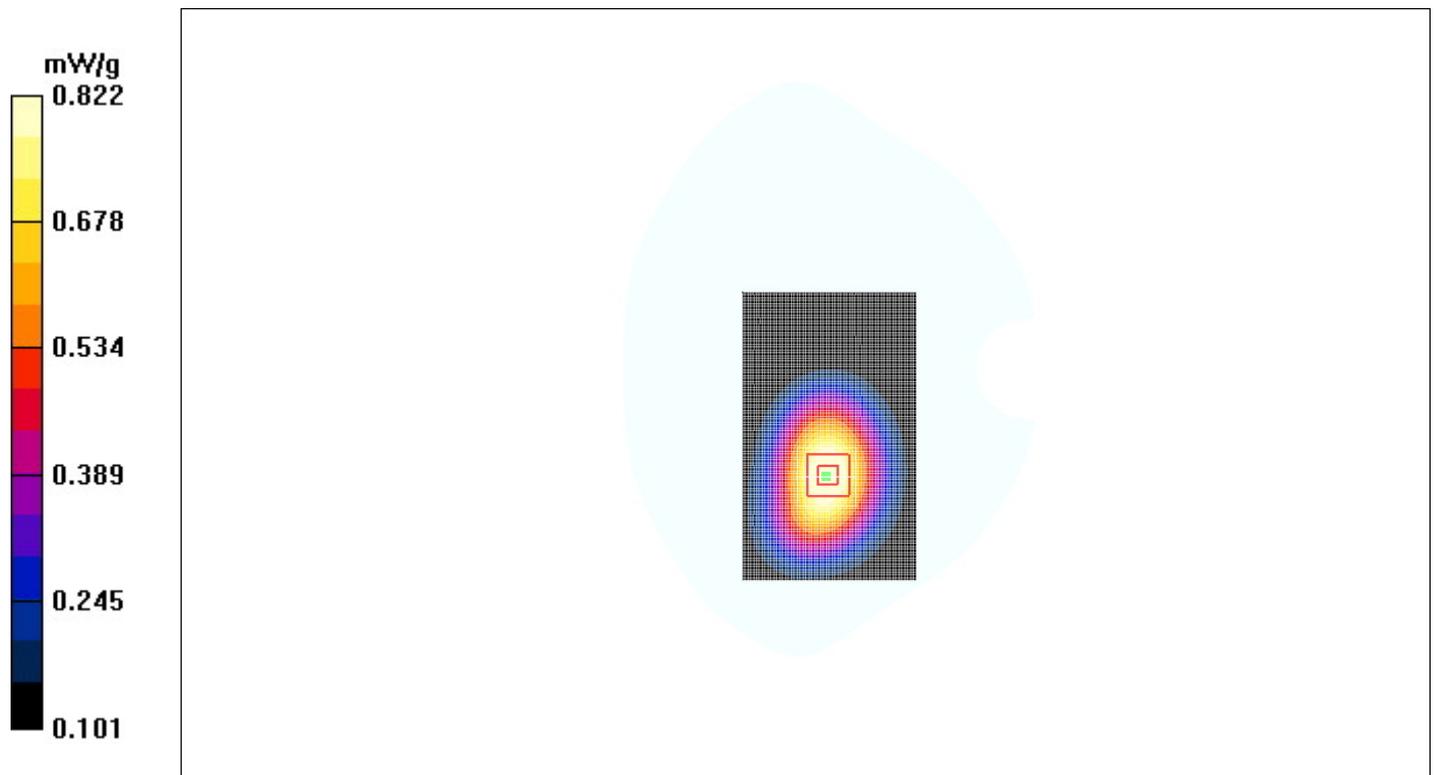


Figure 33 Body, Towards Phantom, CDMA Cellular Channel384

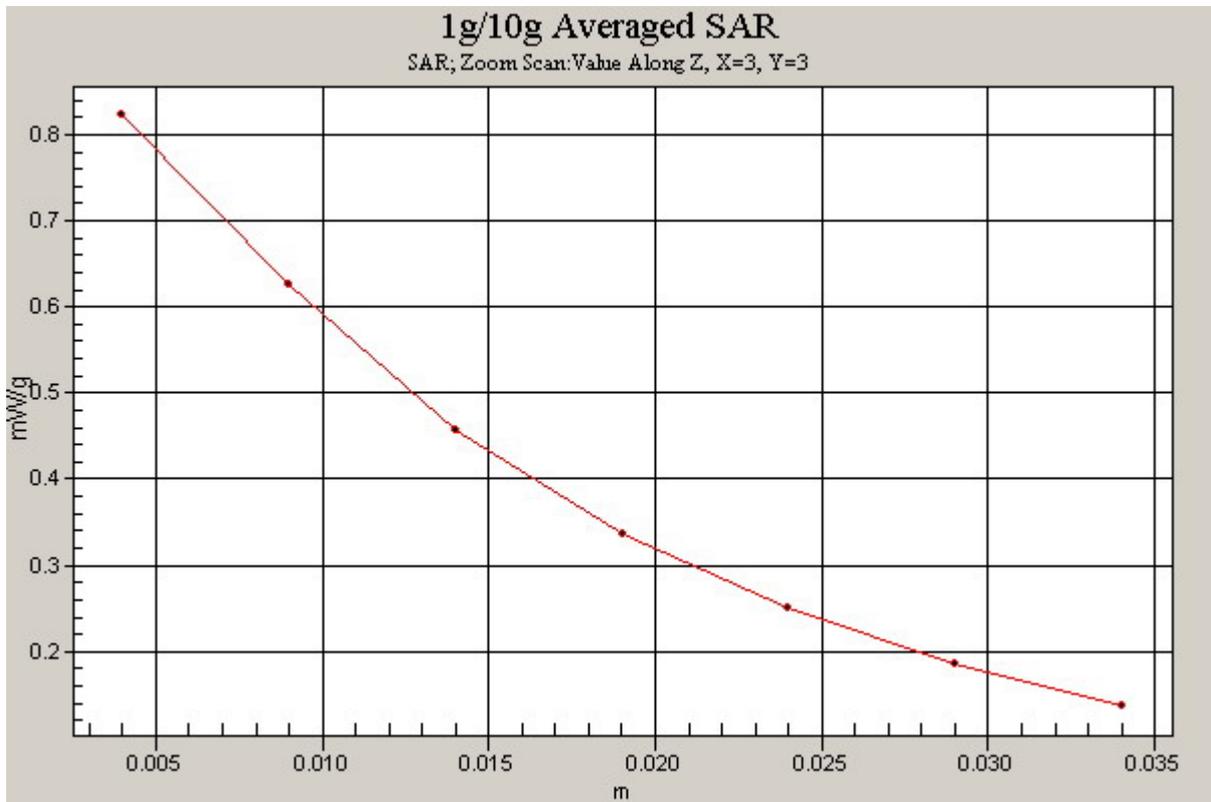


Figure 34 Z-Scan at power reference point (Body, Towards Phantom, CDMA Cellular Channel384)

**CDMA Cellular Towards Phantom Low**

Communication System: CDMA Cellular; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Body 835MHz

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.981$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

**Towards Phantom Low/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.251 mW/g

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

Reference Value = 7.00 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 0.291 W/kg

**SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.165 mW/g**

Maximum value of SAR (measured) = 0.246 mW/g

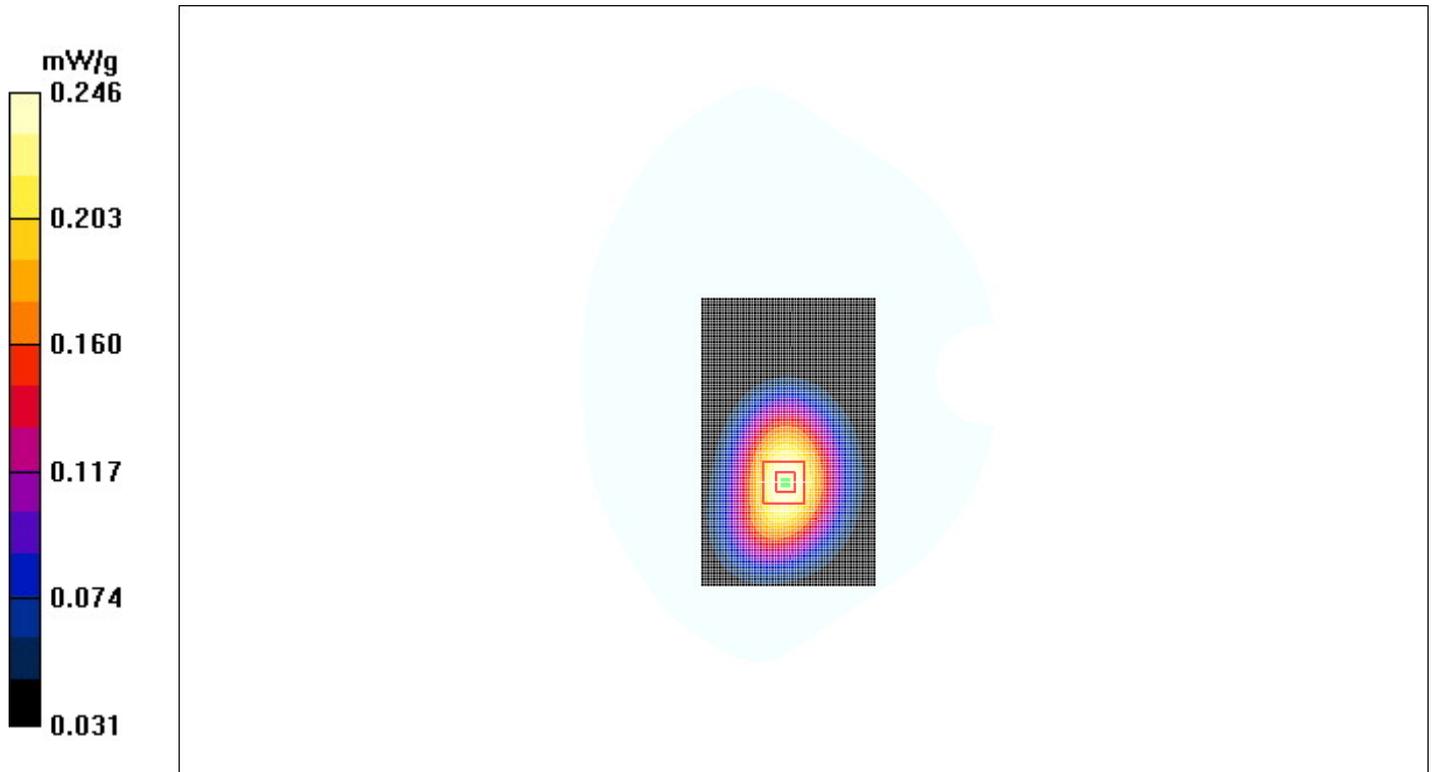


Figure 35 Body, Towards Phantom, CDMA Cellular Channel 1013

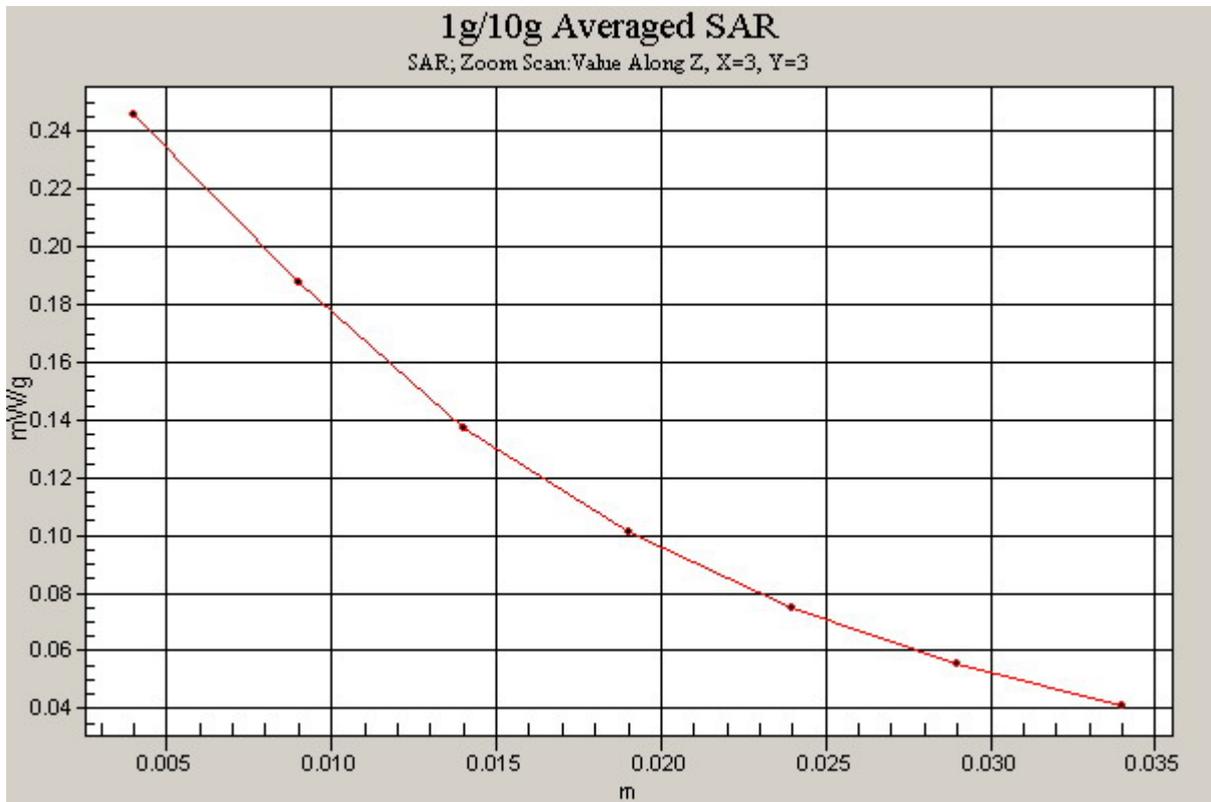


Figure 36 Z-Scan at power reference point (Body, Towards Phantom, CDMA Cellular Channel 1013)

**CDMA Cellular Towards Ground High**

Communication System: CDMA Cellular; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: Body 835MHz

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

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

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

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

Reference Value = 12.5 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.655 mW/g**

Maximum value of SAR (measured) = 0.996 mW/g



Figure 37 Body, Towards Ground, CDMA Cellular Channel 777

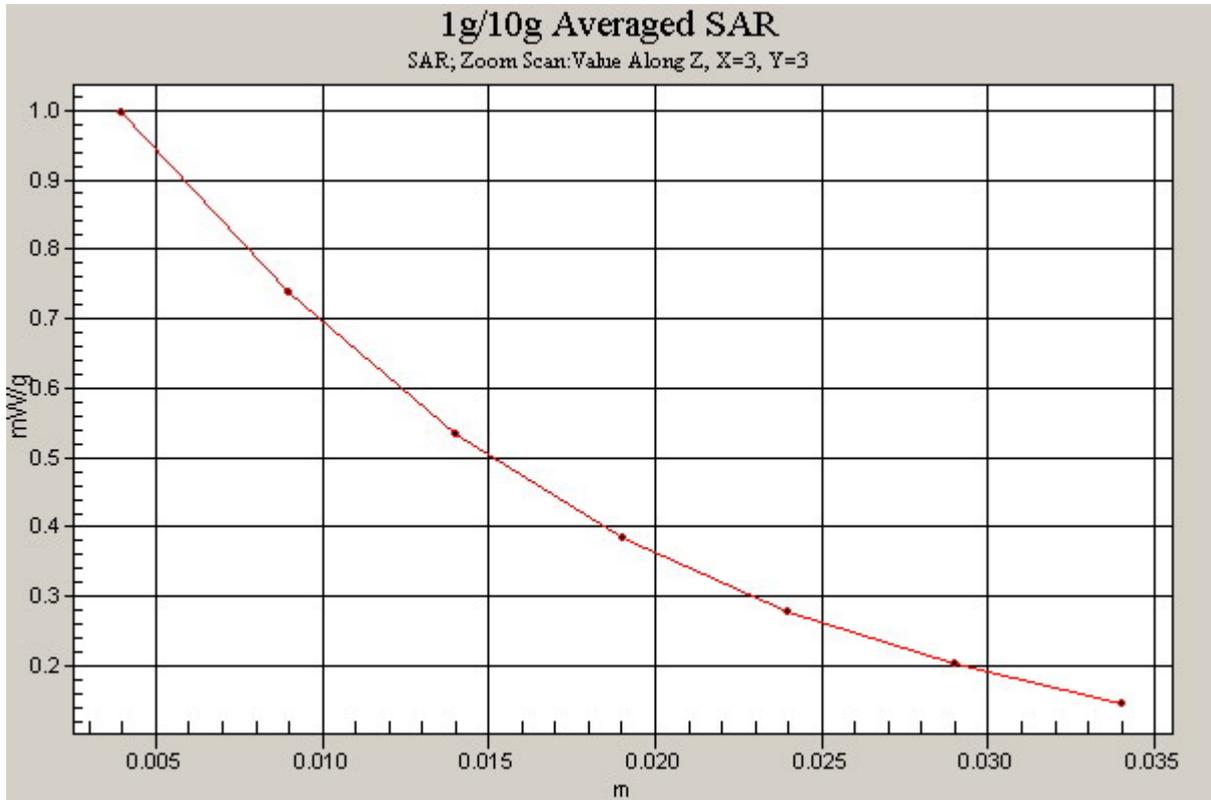


Figure 38 Z-Scan at power reference point (Body, Towards Ground, CDMA Cellular Channel 777)

**CDMA Cellular Towards Ground Middle**

Communication System: CDMA Cellular; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Body 835MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.991$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 1.21 mW/g

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

Reference Value = 13.8 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.859 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g

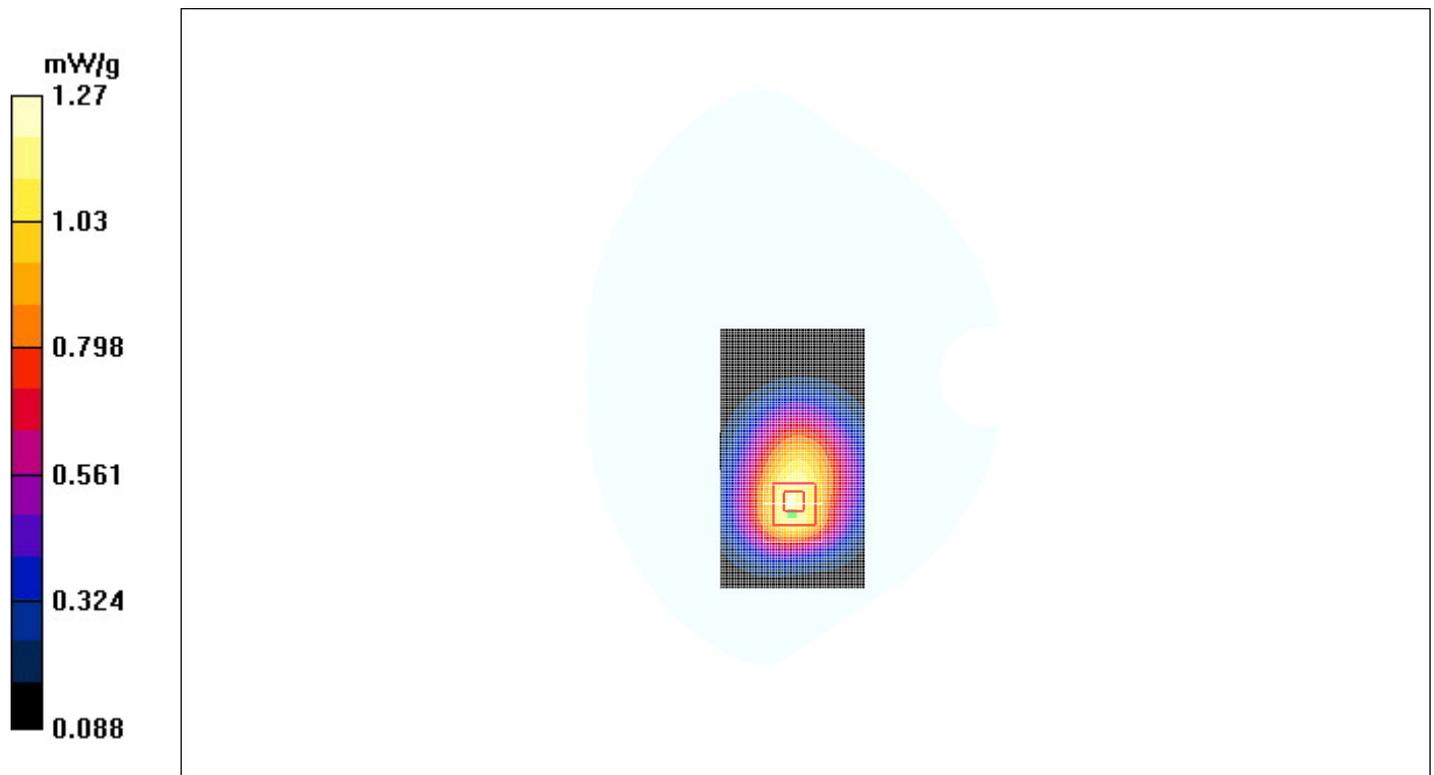


Figure 39 Body, Towards Ground, CDMA Cellular Channel 384

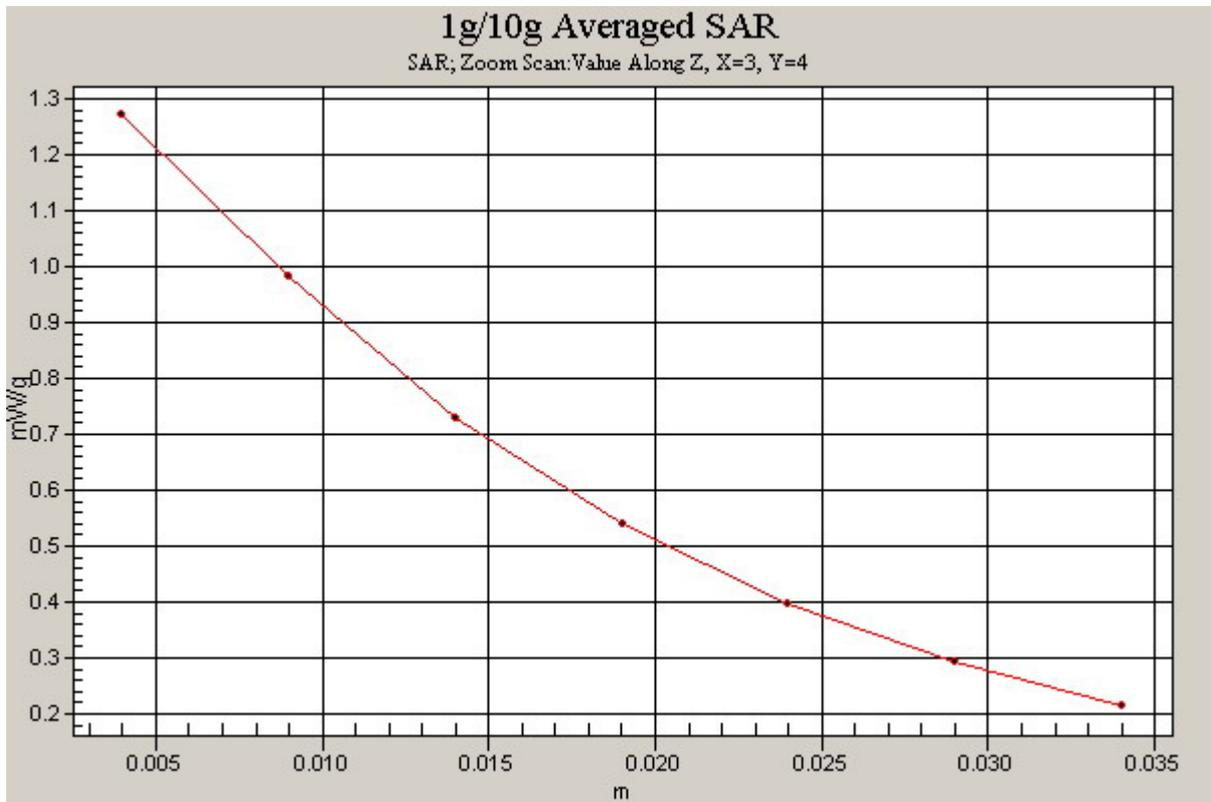


Figure 40 Z-Scan at power reference point (Body, Towards Ground, CDMA Cellular Channel 384)

**CDMA Cellular Towards Ground Low**

Communication System: CDMA Cellular; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: Body 835MHz

Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.981 \text{ mho/m}$ ;  $\epsilon_r = 55$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.527 mW/g

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

Reference Value = 10.8 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.599 W/kg

**SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.340 mW/g**

Maximum value of SAR (measured) = 0.494 mW/g

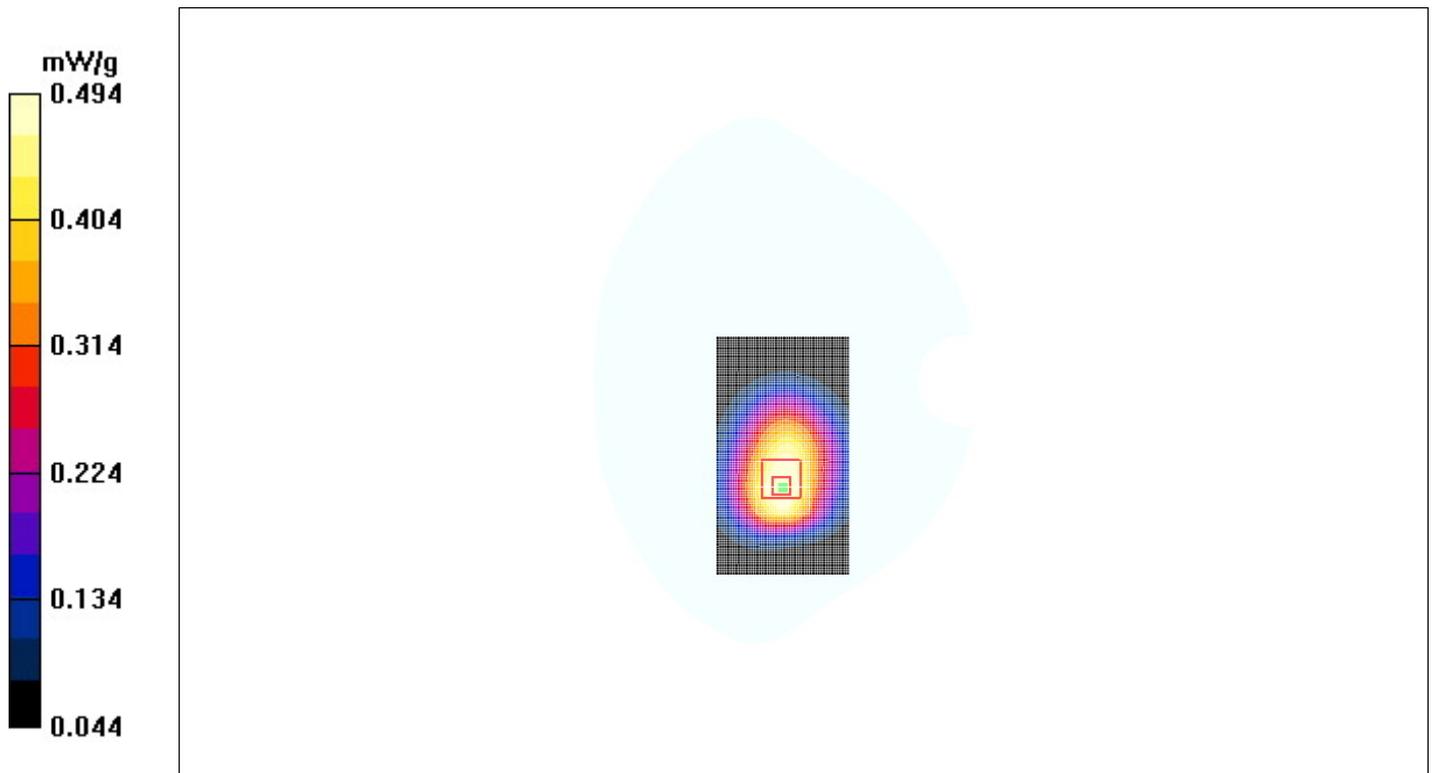


Figure 41 Body, Towards Ground, CDMA Cellular Channel1013

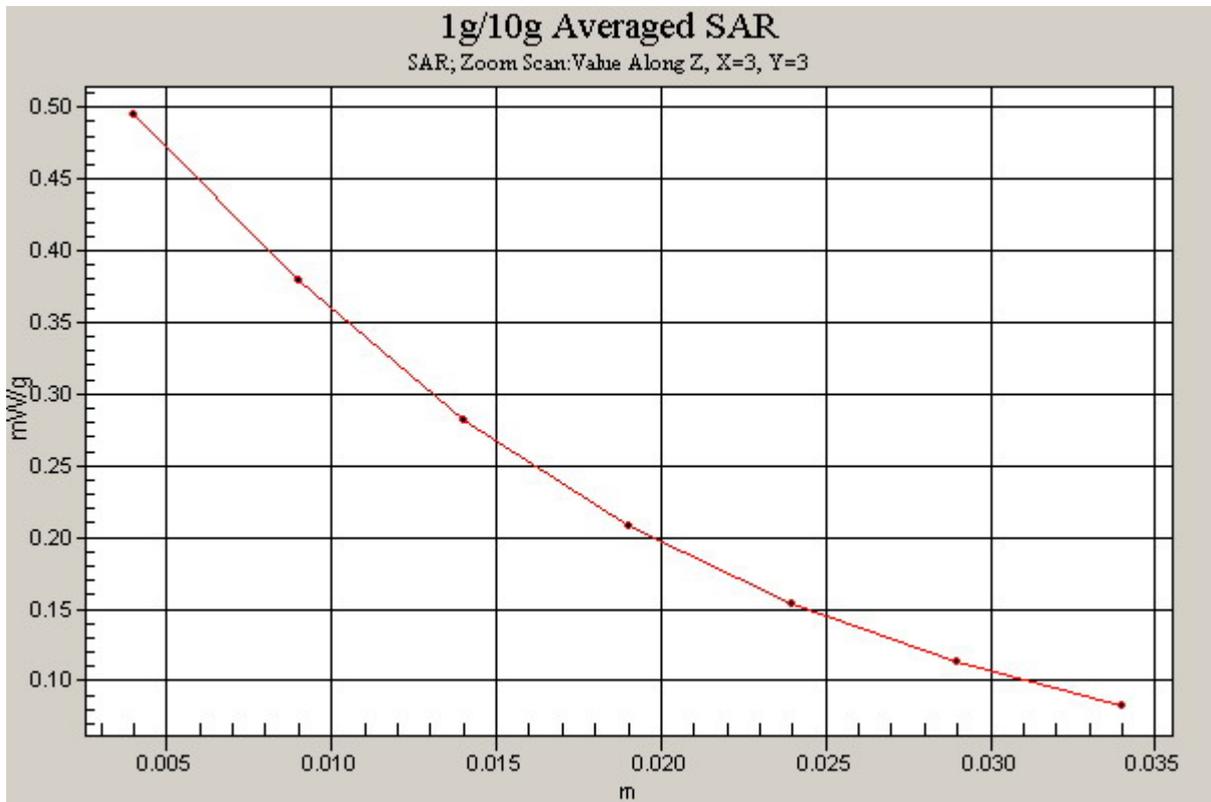


Figure 42 Z-Scan at power reference point (Body, Towards Ground, CDMA Cellular Channel1013)

## ANNEX D: SYSTEM VALIDATION RESULTS

### System Performance Check at 835 MHz

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:443

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 835MHz

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.899$  mho/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1737; ConvF(6.52, 6.52, 6.52);

- Electronics: DAE3 Sn452;

**d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.54 mW/g

**d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:

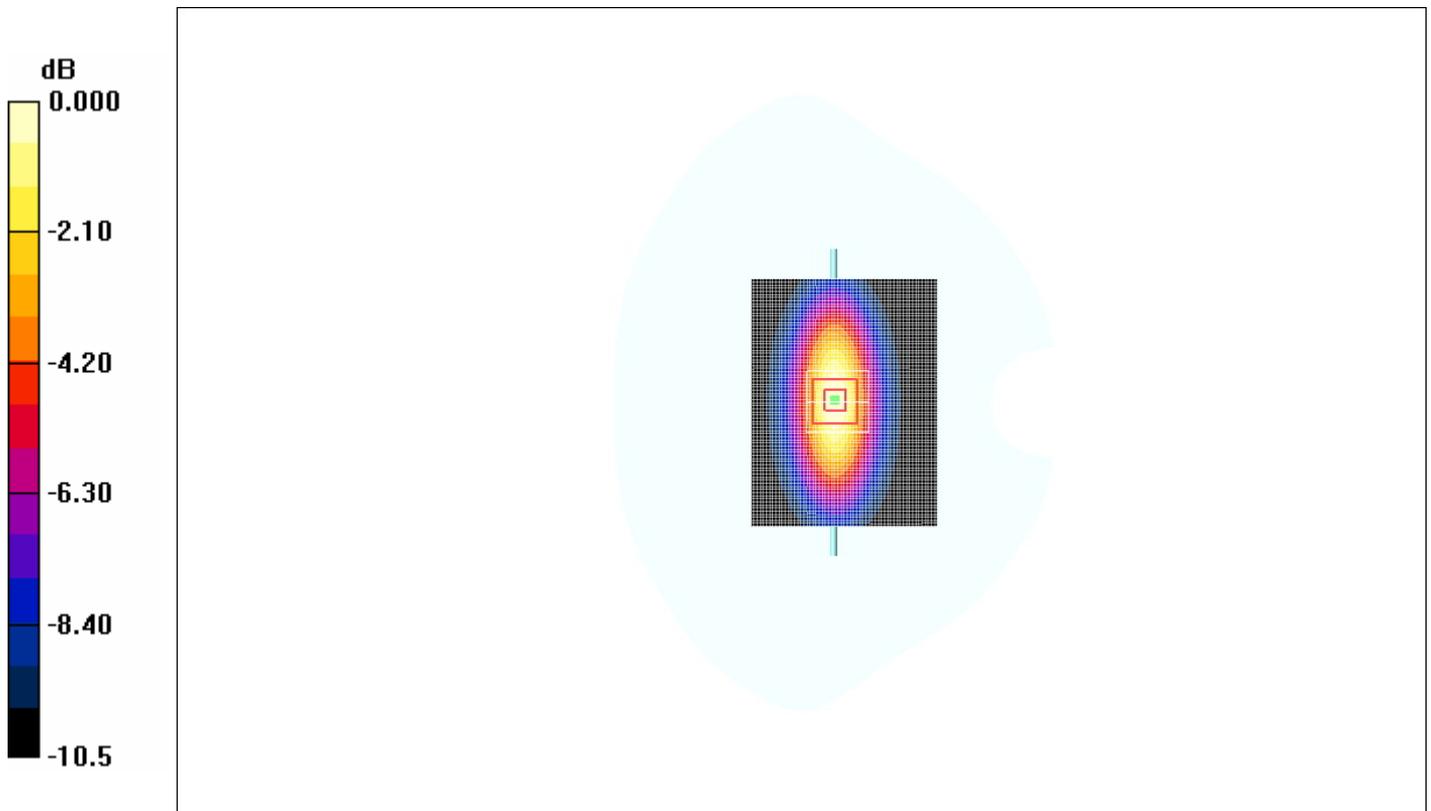
dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.0 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 3.44 W/kg

**SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.53 mW/g**

Maximum value of SAR (measured) = 2.52 mW/g



0 dB = 2.52mW/g

Figure 43 System Performance Check 835MHz 250mW