

CDMA PCS Left Tilt Middle

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 1.42 mW/g

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

Reference Value = 29.3 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.683 mW/g

Maximum value of SAR (measured) = 1.37 mW/g

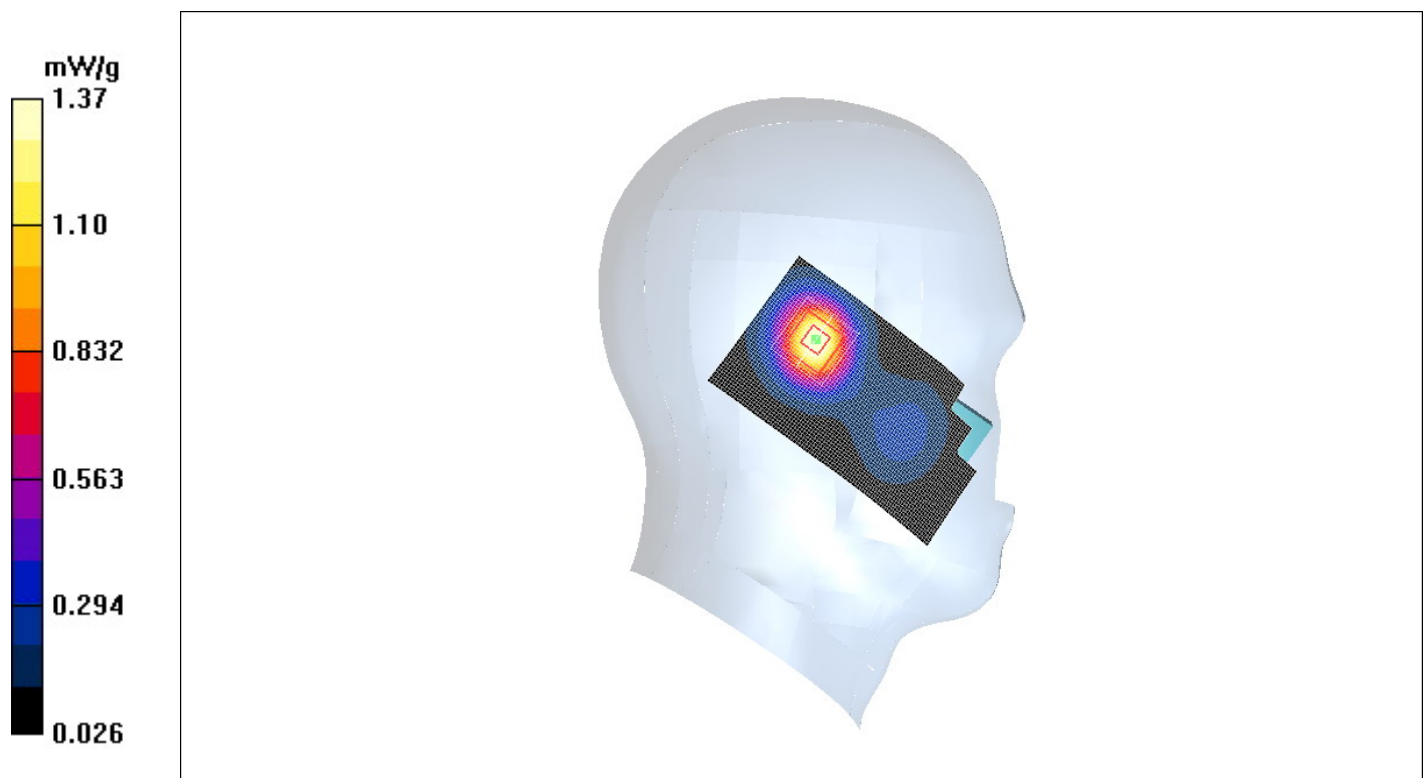


Figure. 15 Left Hand Tilt 15° CDMA PCS Channel 600

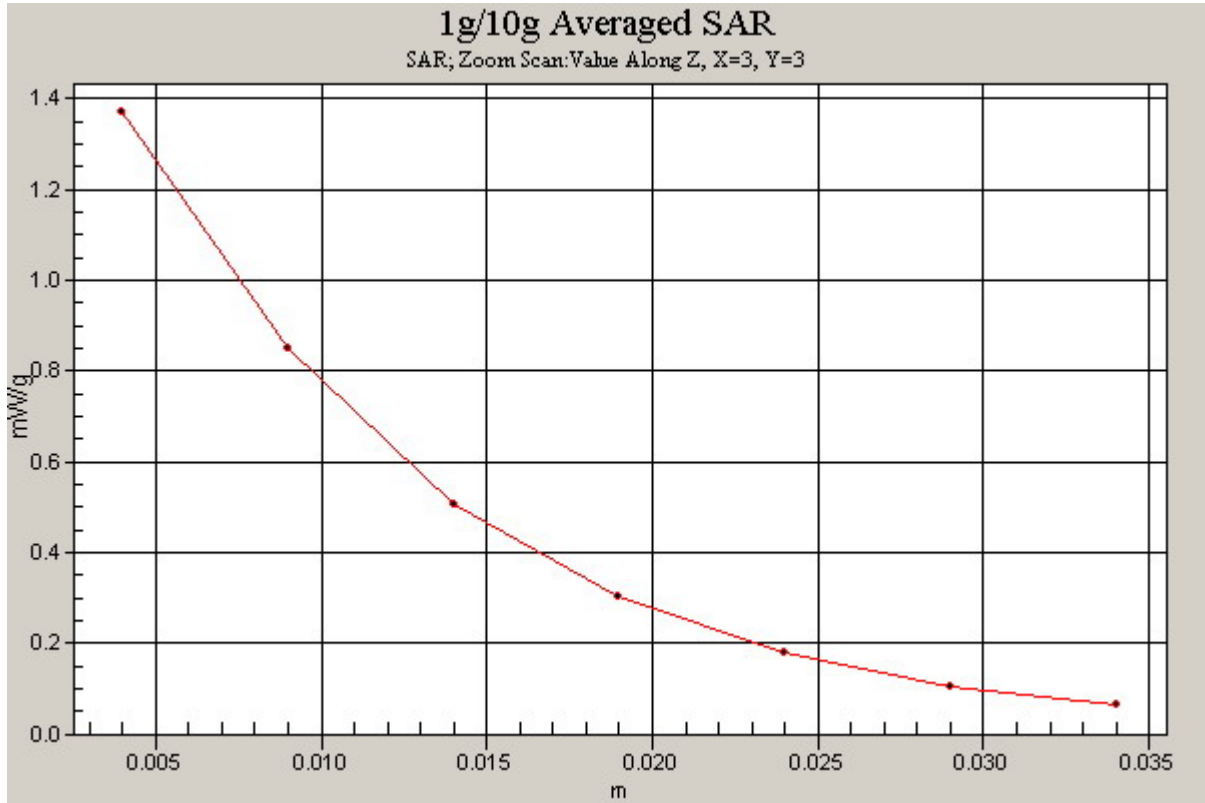


Figure. 16 Z-Scan at power reference point (Left Hand Tilt 15° CDMA PCS Channel 600)

CDMA PCS Left Tilt Low

Communication System: CDMA PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used: $f = 1852$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.654 mW/g

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

Reference Value = 20.1 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.912 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 0.646 mW/g

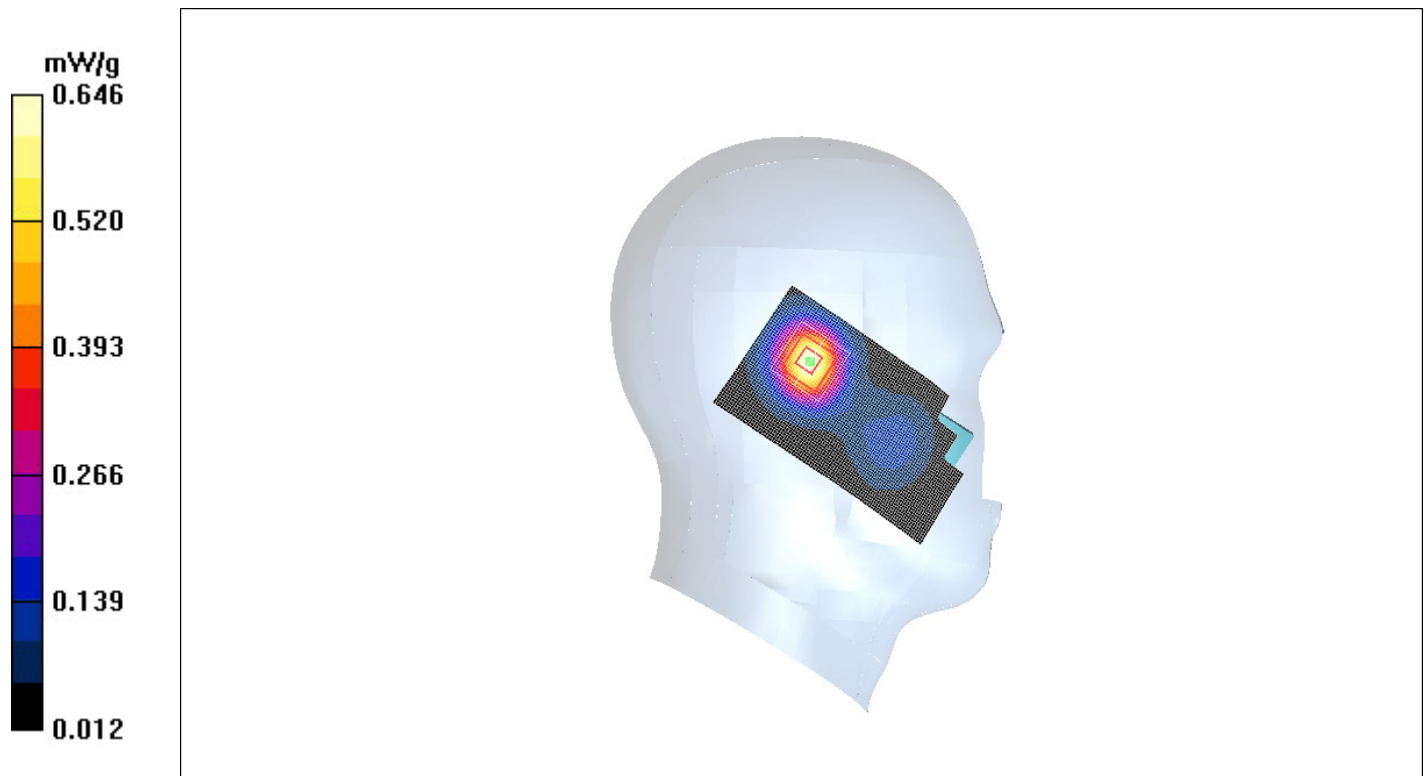


Figure. 17 Left Hand Tilt 15° CDMA PCS Channel 25

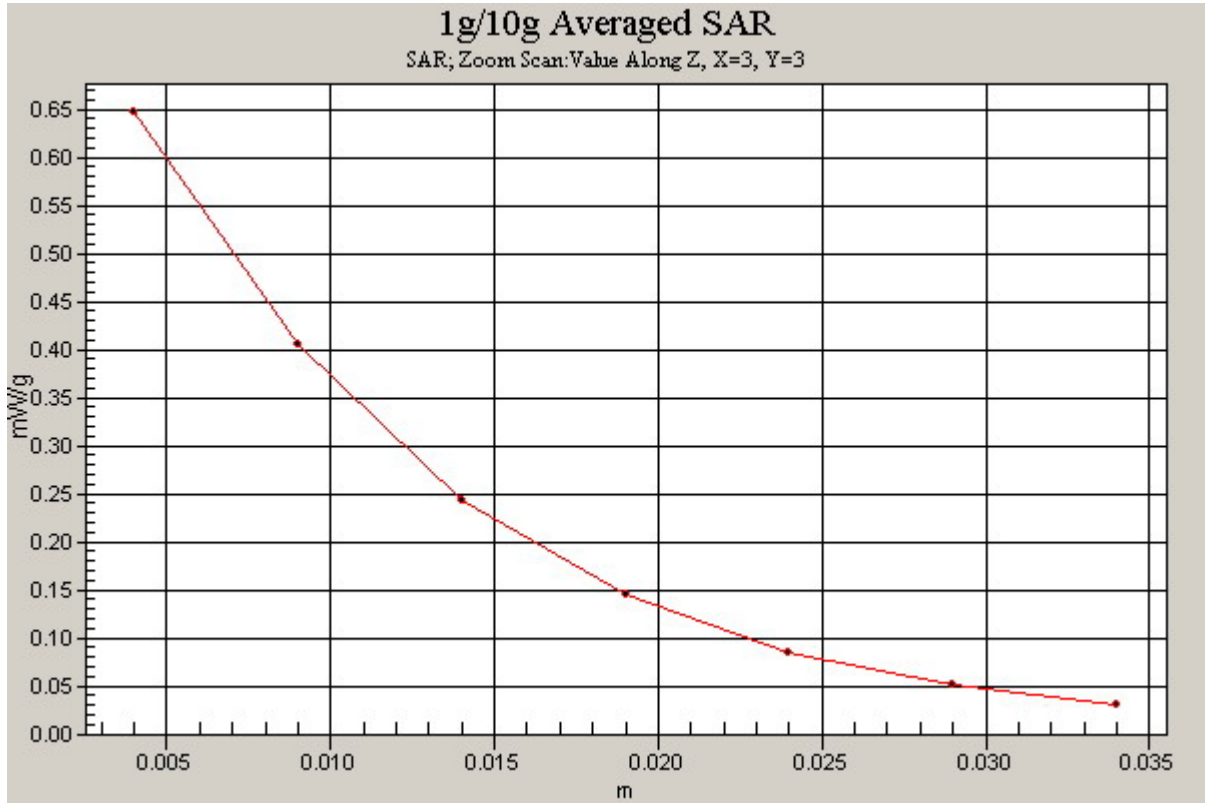


Figure.18 Z-Scan at power reference point (Left Hand Tilt 15° CDMA PCS Channel 25)

CDMA PCS Right Cheek High

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.833 mW/g

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

Reference Value = 23.7 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.812 mW/g; SAR(10 g) = 0.503 mW/g

Maximum value of SAR (measured) = 0.880 mW/g

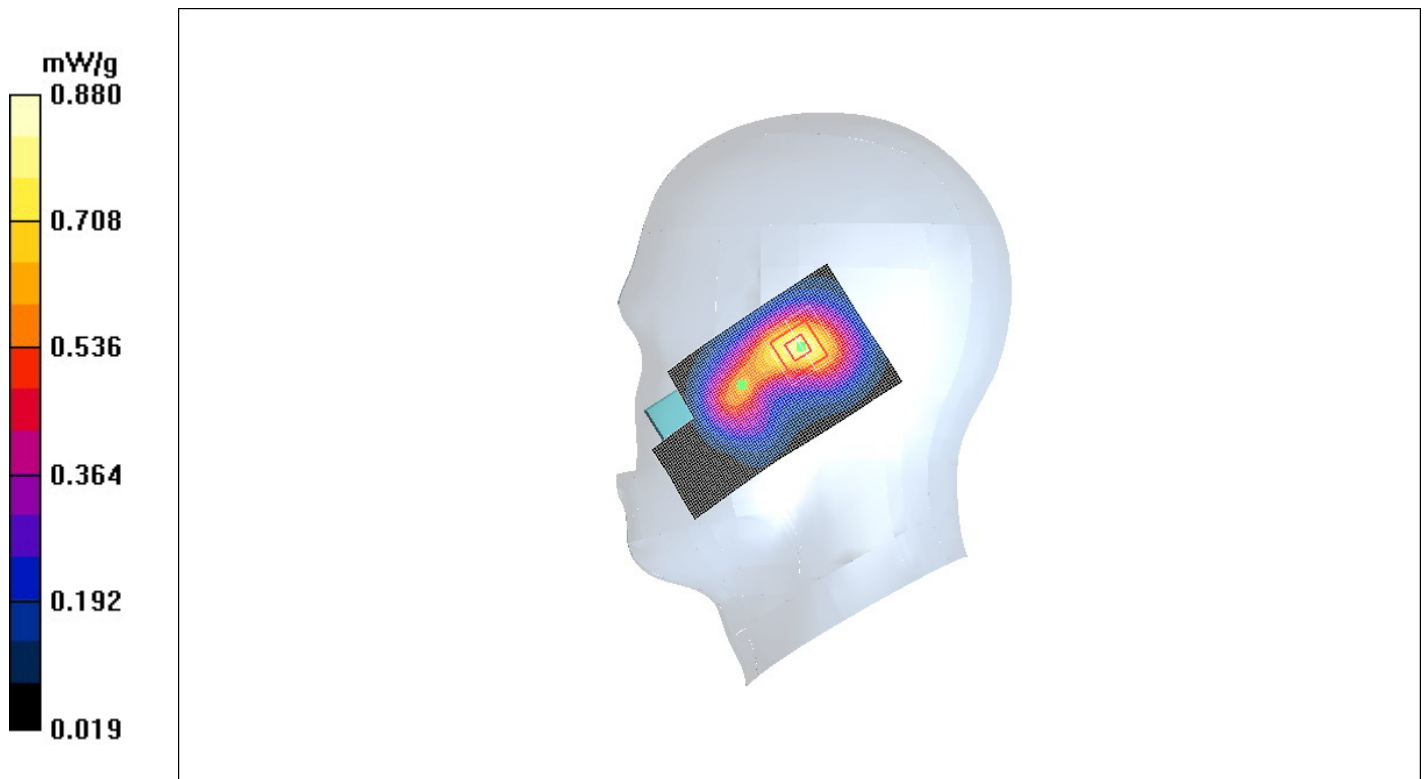


Figure. 19 Right Hand Touch Cheek CDMA PCS Channel 1175

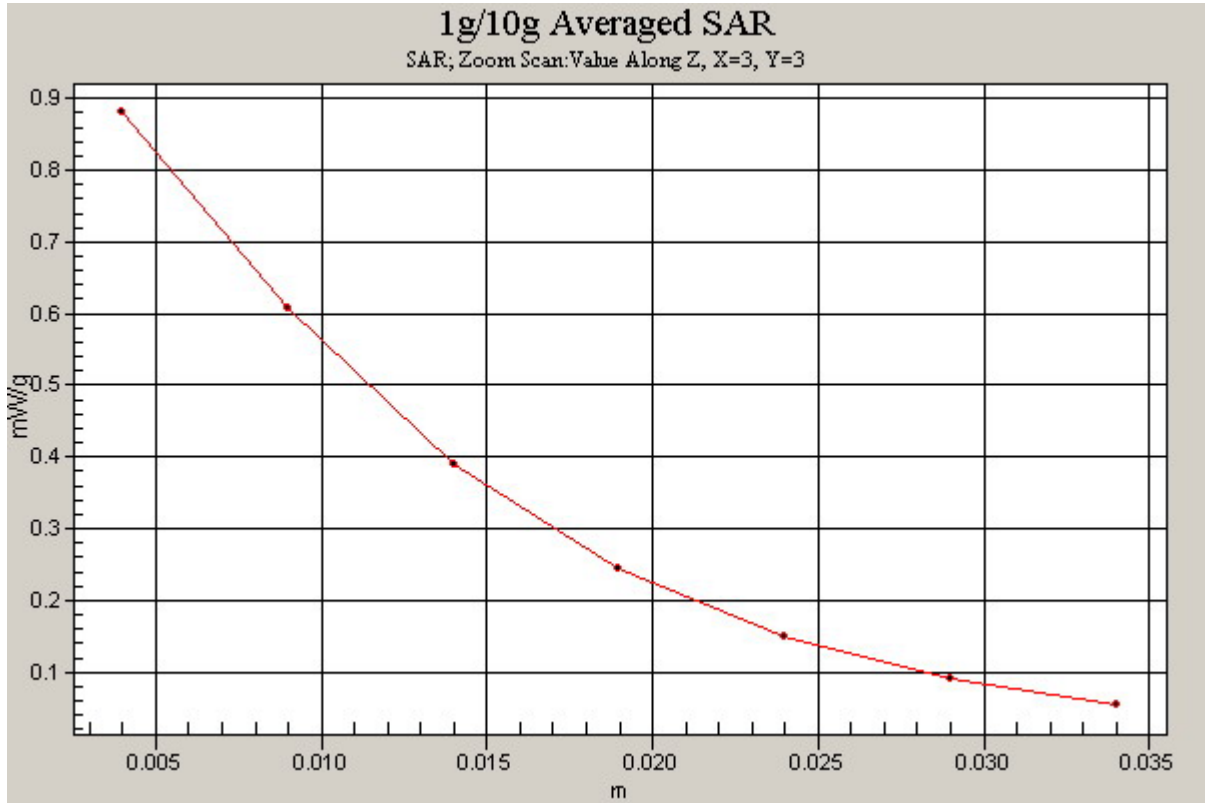


Figure. 20 Z-Scan at power reference point (Right Hand Touch Cheek CDMA PCS Channel 1175)

CDMA PCS Right Cheek Middle

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.945 mW/g

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

Reference Value = 25.3 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.847 mW/g; SAR(10 g) = 0.530 mW/g

Maximum value of SAR (measured) = 0.918 mW/g

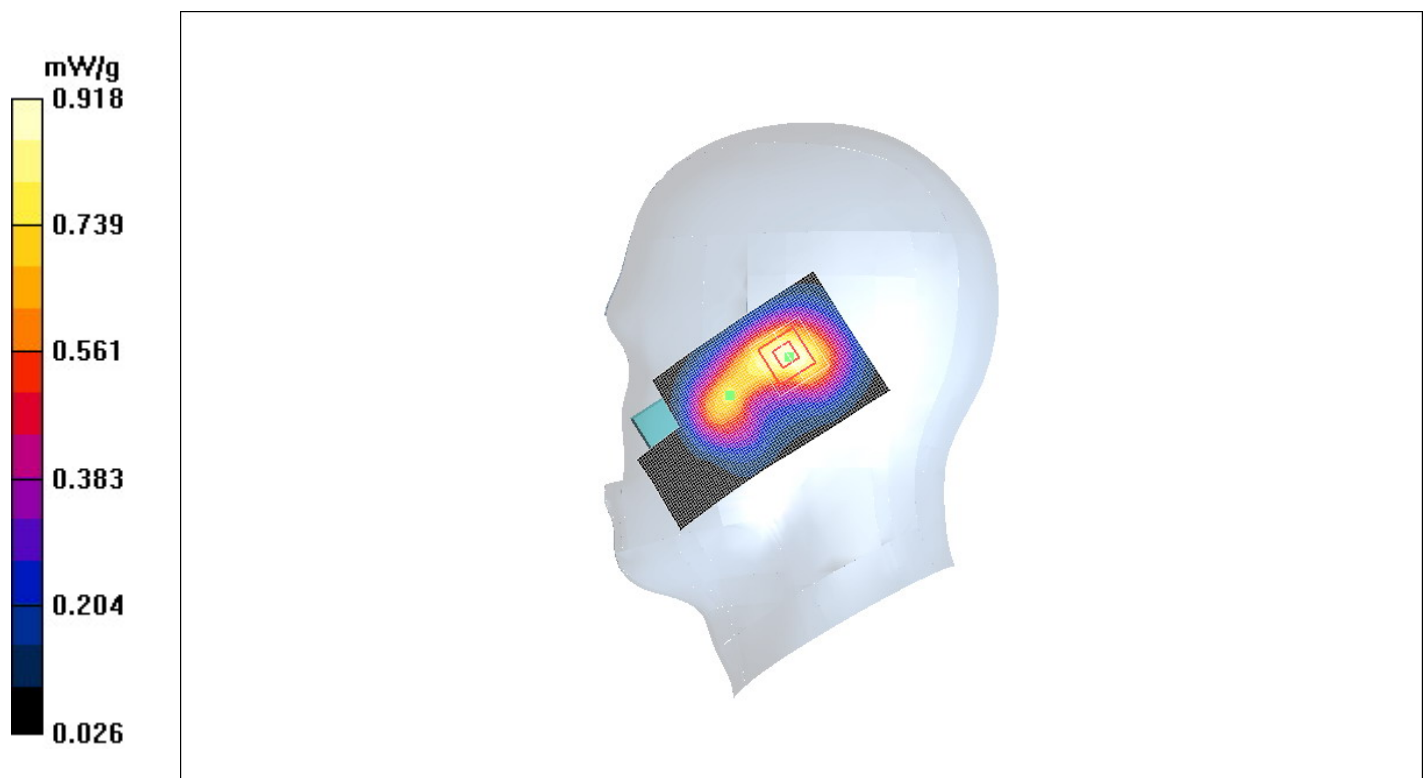


Figure. 21 Right Hand Touch Cheek CDMA PCS Channel 600

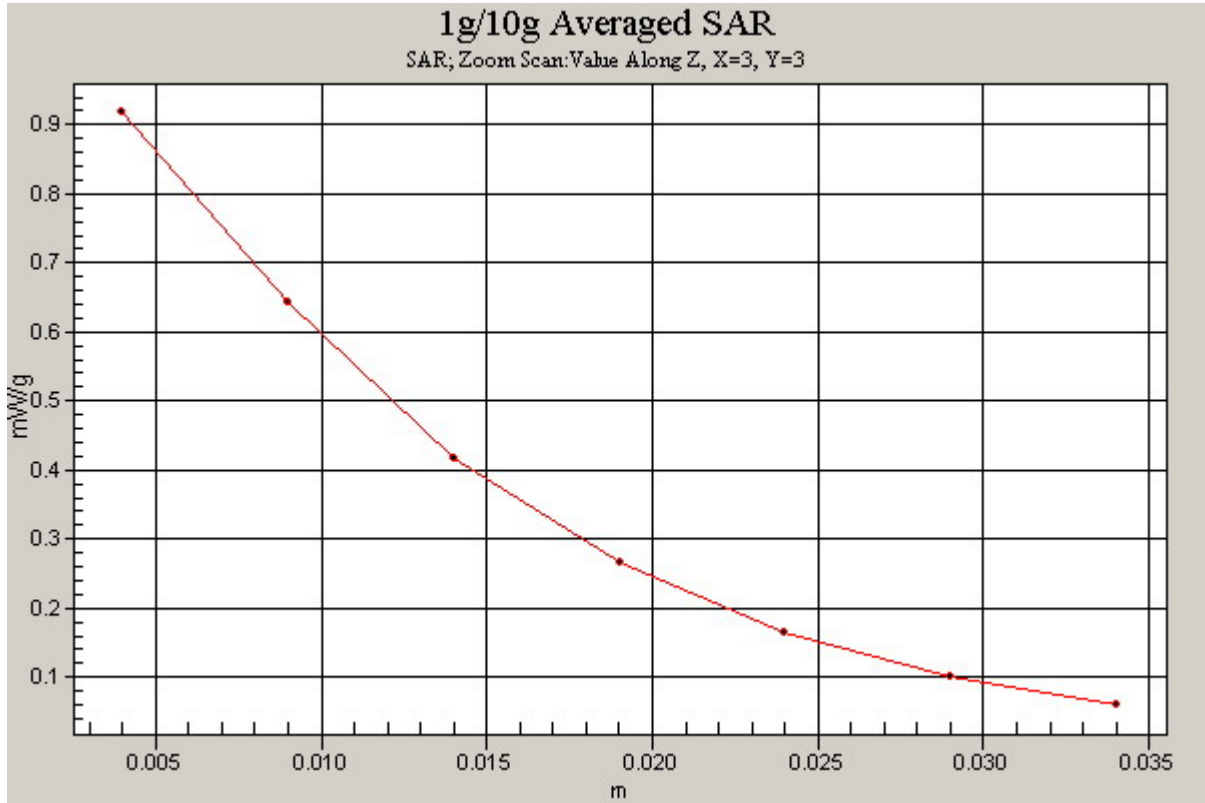


Figure. 22 Z-Scan at power reference point (Right Hand Touch Cheek CDMA PCS Channel 600)

CDMA PCS Right Cheek Low

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used: $f = 1852$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.562 mW/g

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

Reference Value = 19.8 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.550 mW/g

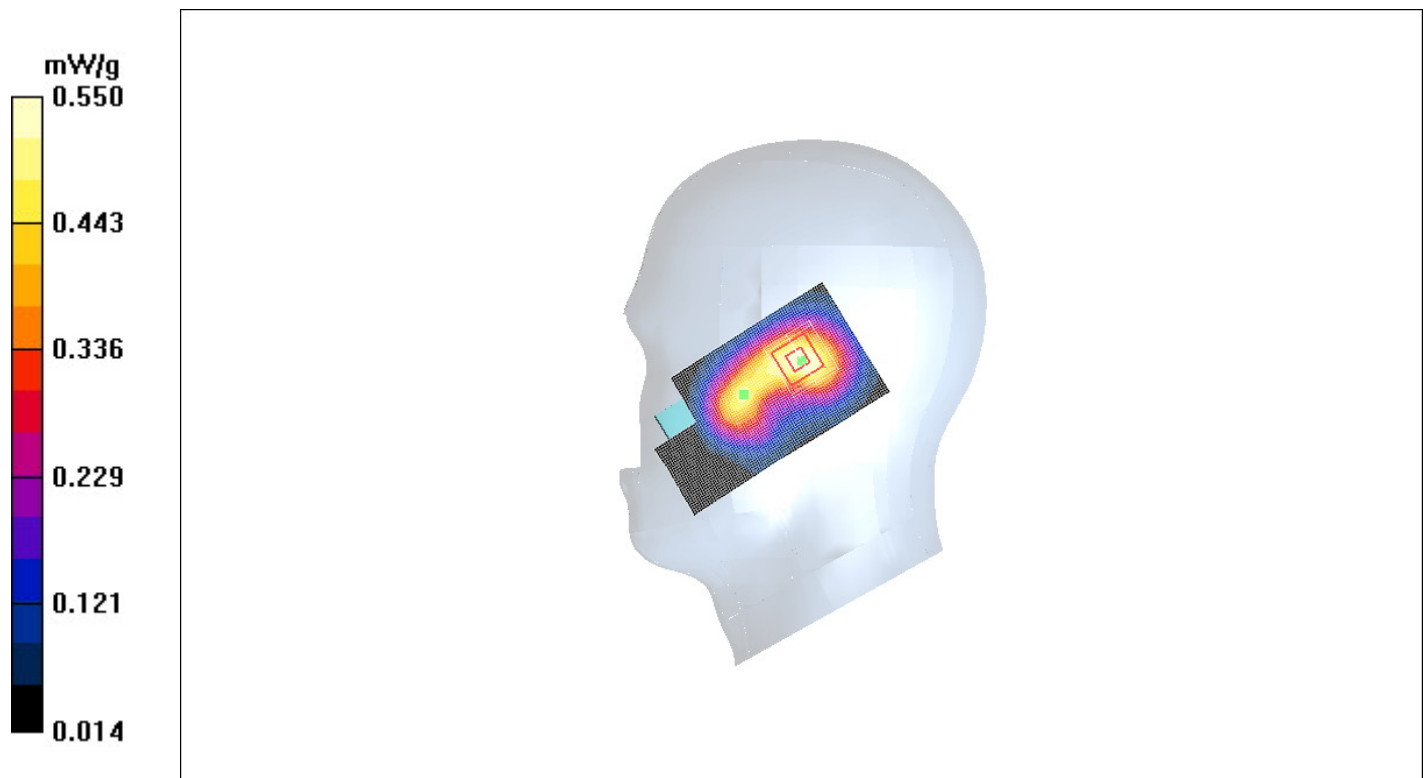


Figure. 23 Right Hand Touch Cheek CDMA PCS Channel 25

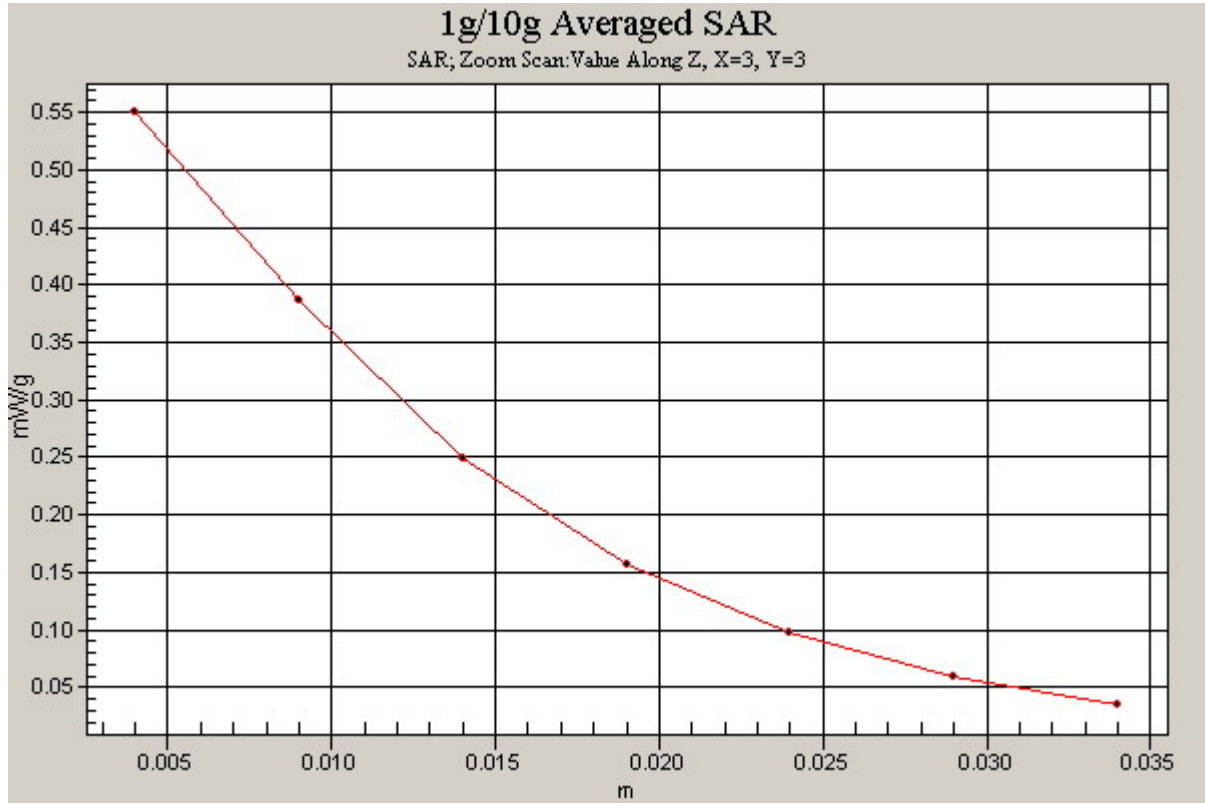


Figure. 24 Z-Scan at power reference point (Right Hand Touch Cheek CDMA PCS Channel 25)

CDMA PCS Right Tilt High

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.907 mW/g

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

Reference Value = 27.6 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.865 mW/g; SAR(10 g) = 0.496 mW/g

Maximum value of SAR (measured) = 0.963 mW/g

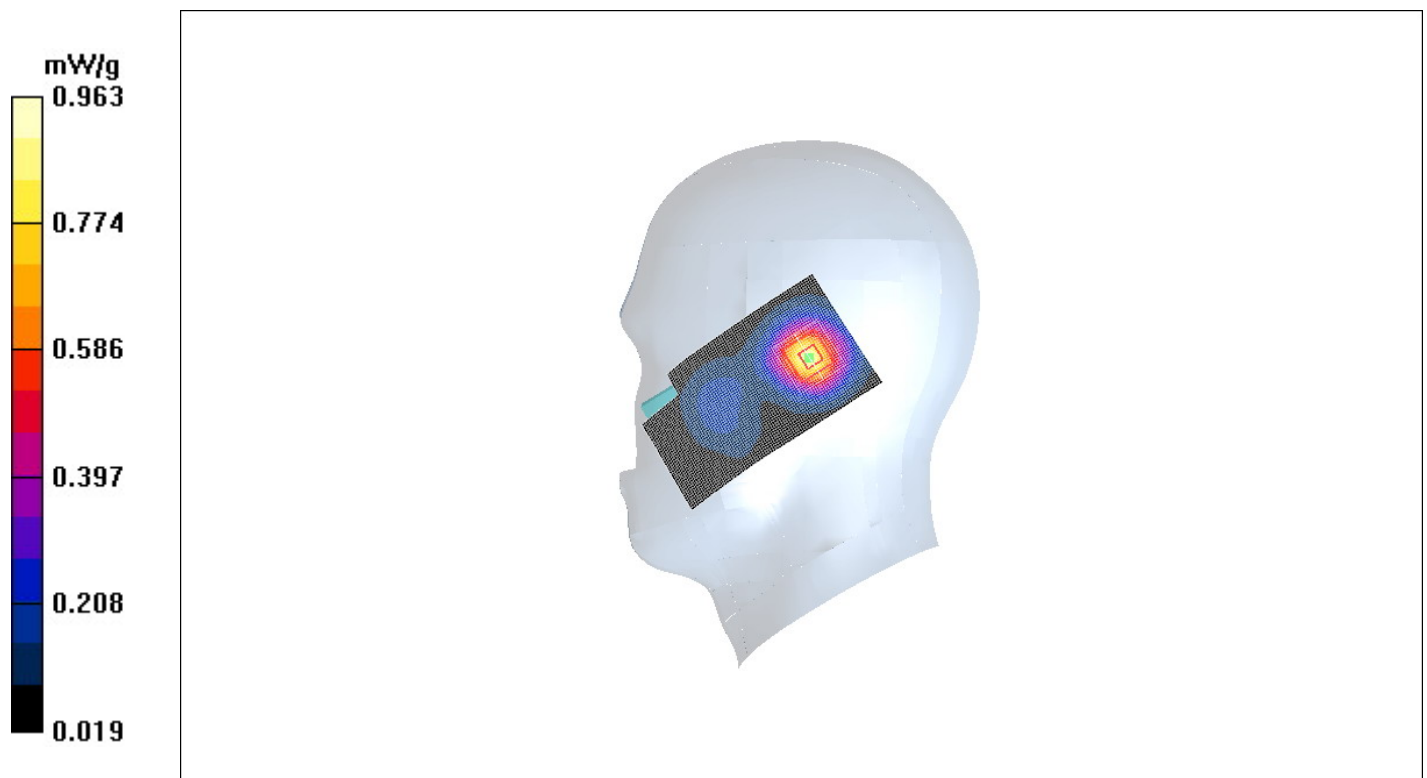


Figure. 25 Right Hand Tilt 15° CDMA PCS Channel 1175

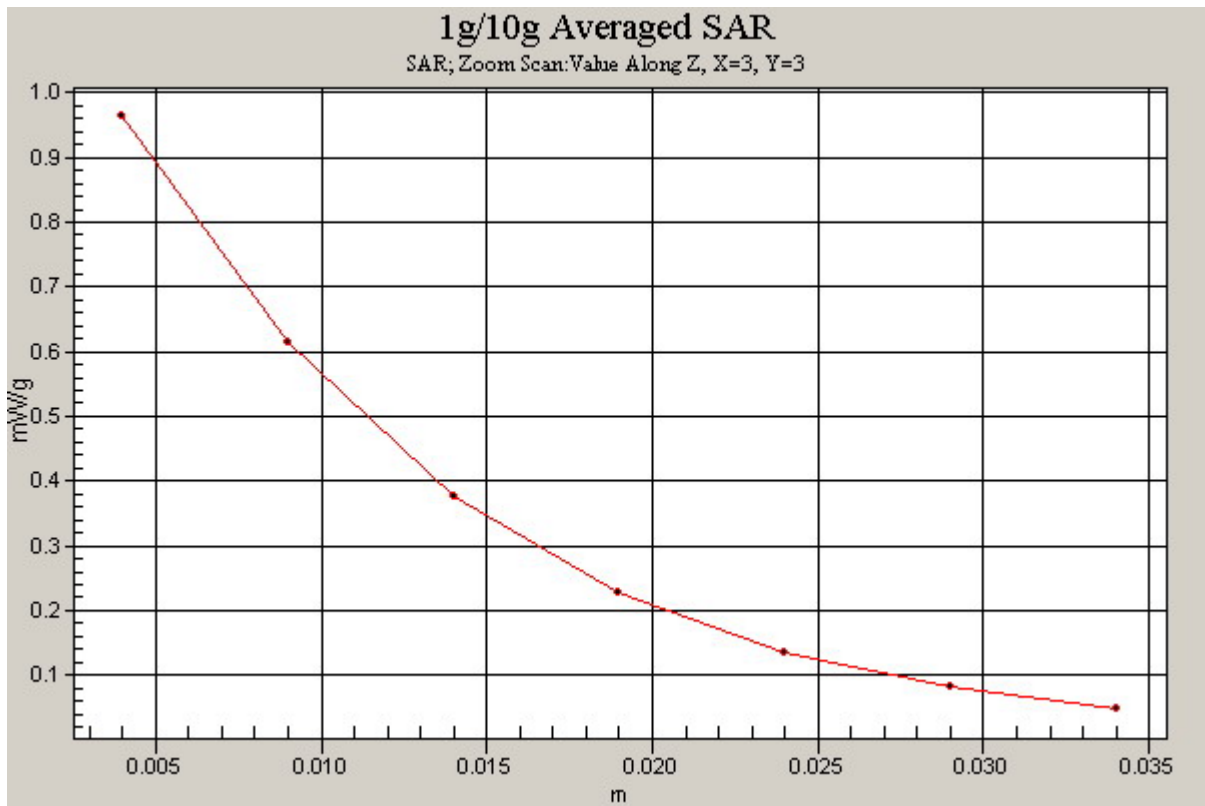


Figure. 26 Z-Scan at power reference point (Right Hand Tilt 15° CDMA PCS Channel 1175)

CDMA PCS Right Tilt Middle

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 1.02 mW/g

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

Reference Value = 29.4 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.980 mW/g; SAR(10 g) = 0.562 mW/g

Maximum value of SAR (measured) = 1.08 mW/g

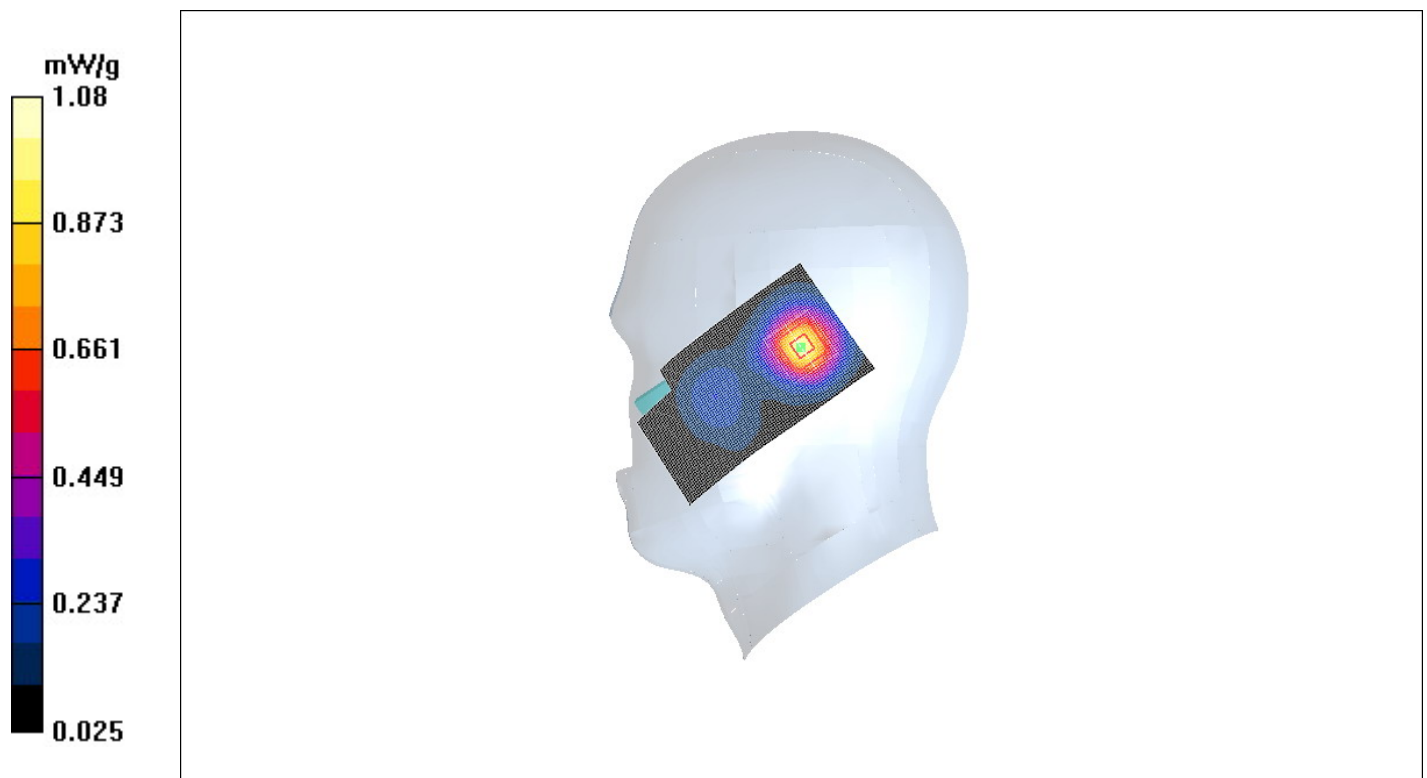


Figure. 27 Right Hand Tilt 15° CDMA PCS Channel 600

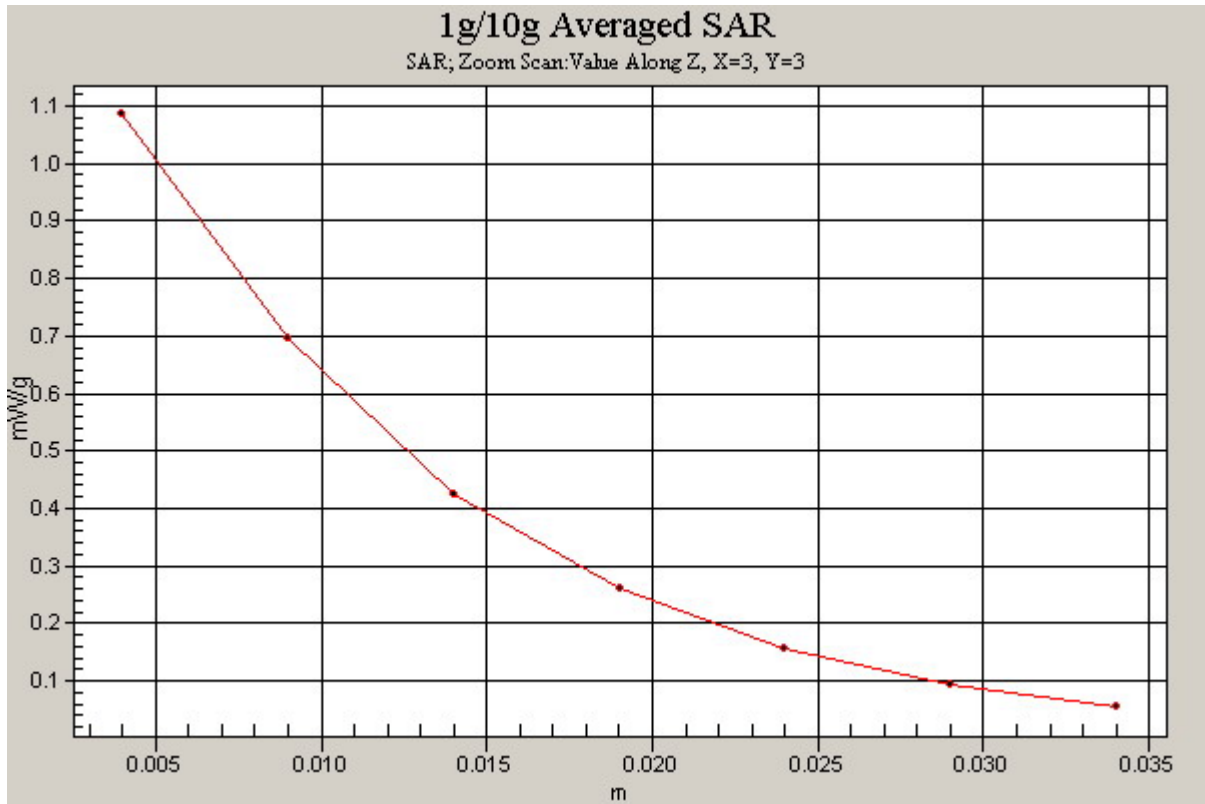


Figure. 28 Z-Scan at power reference point (Right Hand Tilt 15° CDMA PCS Channel 600)

CDMA PCS Right Tilt Low

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: Head 1900MHz

Medium parameters used: $f = 1852 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1737; ConvF(5.15, 5.15, 5.15);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.576 mW/g

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

Reference Value = 22.4 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.835 W/kg

SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 0.604 mW/g

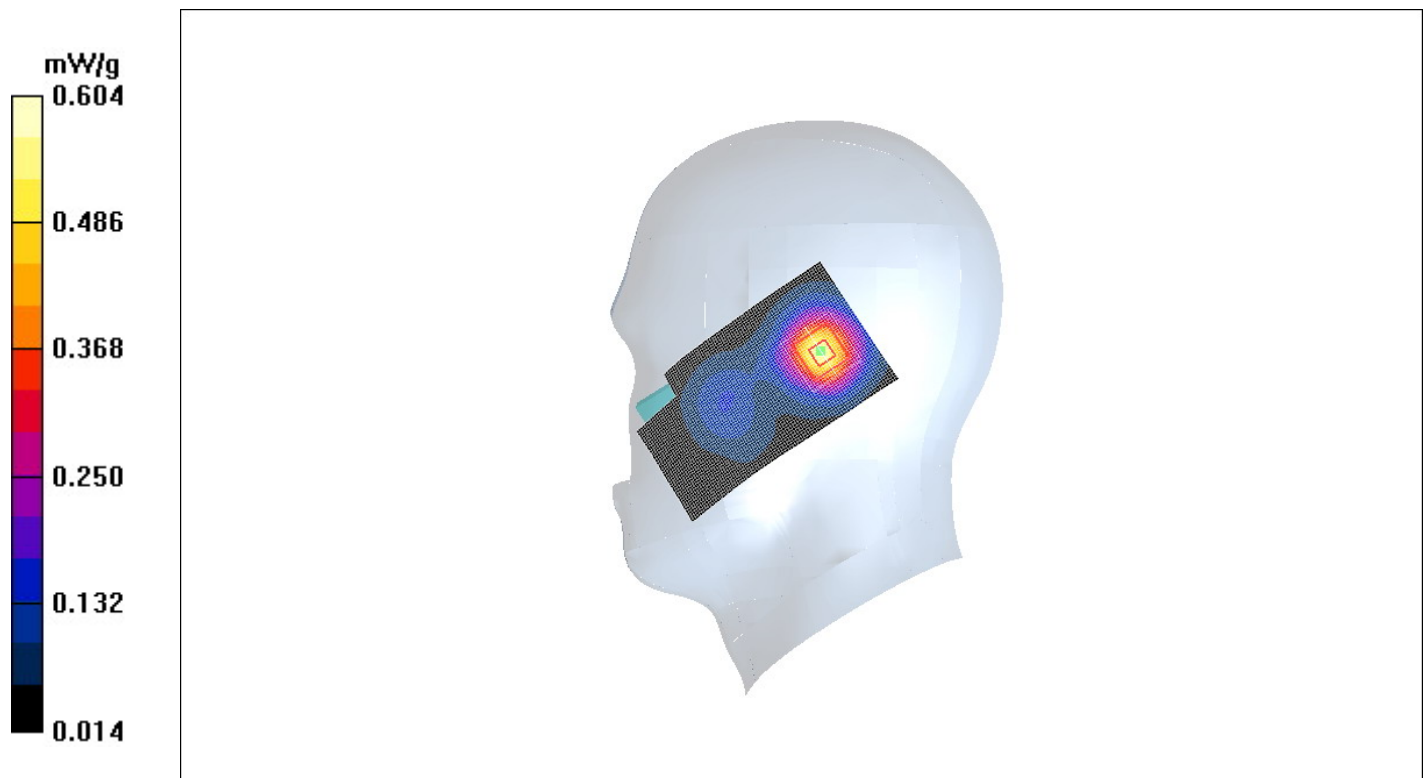


Figure. 29 Right Hand Tilt 15° CDMA PCS Channel 25

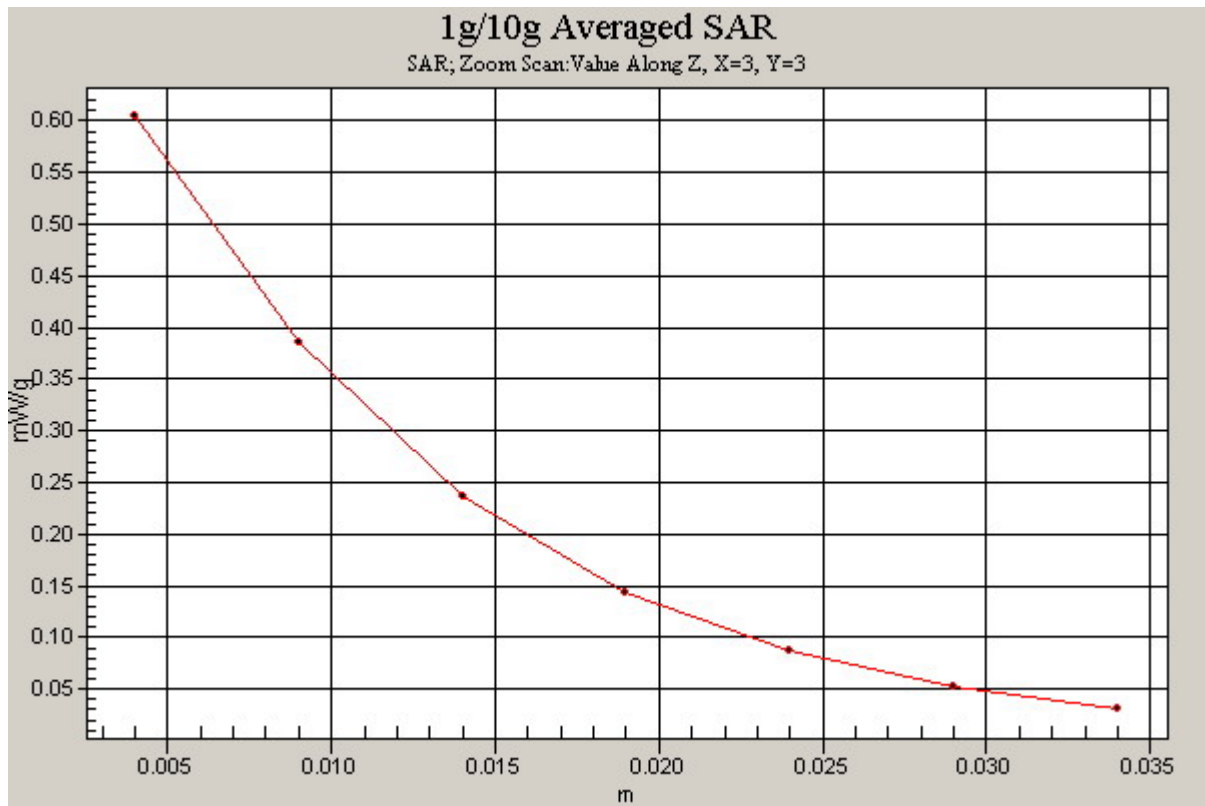


Figure. 30 Z-Scan at power reference point (Right Hand Tilt 15° CDMA PCS Channel 25)

CDMA PCS Towards Phantom High

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: Body 1900MHz

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.504 mW/g

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

Reference Value = 16.4 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.637 W/kg

SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.268 mW/g

Maximum value of SAR (measured) = 0.464 mW/g

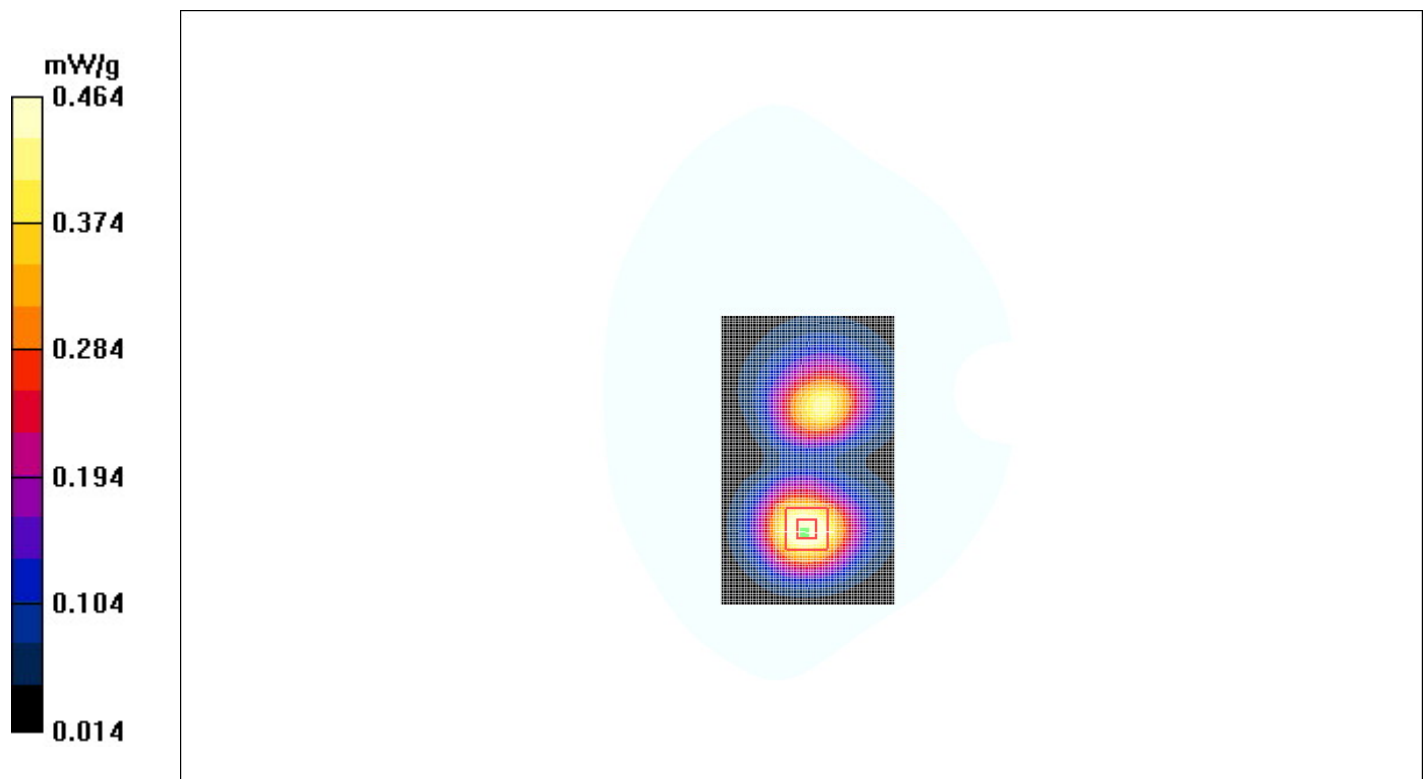


Figure. 31 Body, Towards Phantom, CDMA PCS Channel 1175

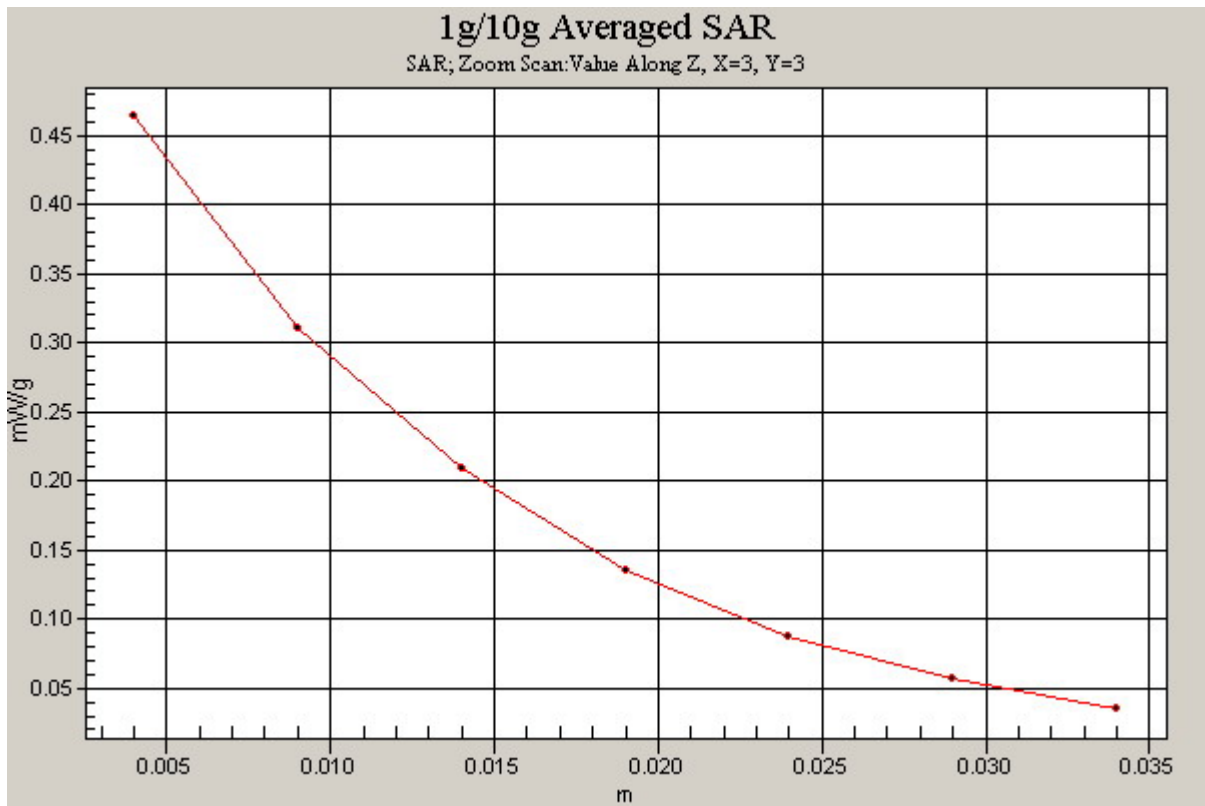


Figure. 32 Z-Scan at power reference point (Body, Towards Phantom, CDMA PCS Channel 1175)

CDMA PCS Towards Phantom Middle

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Body 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.526 mW/g

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

Reference Value = 16.4 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.297 mW/g

Maximum value of SAR (measured) = 0.509 mW/g

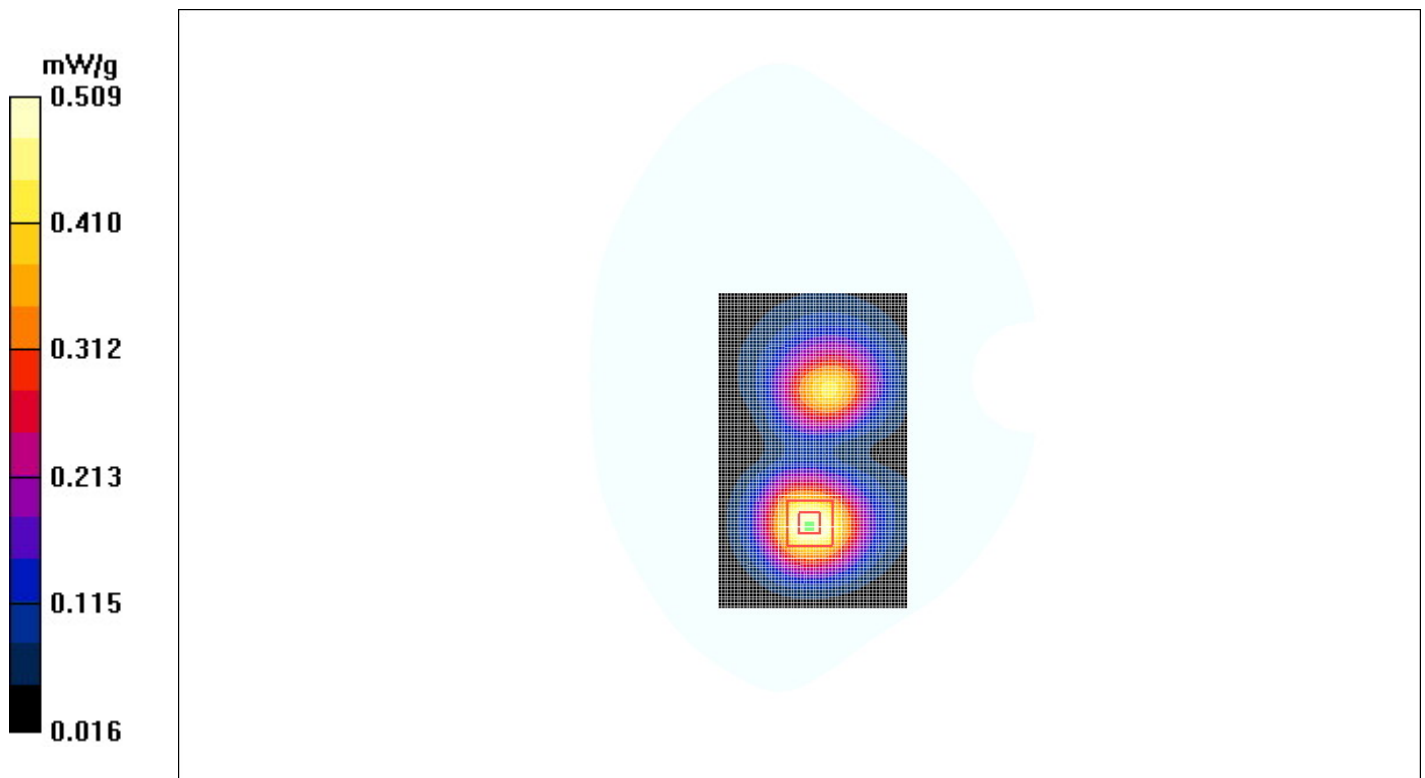


Figure. 33 Body, Towards Phantom, CDMA PCS Channel 600

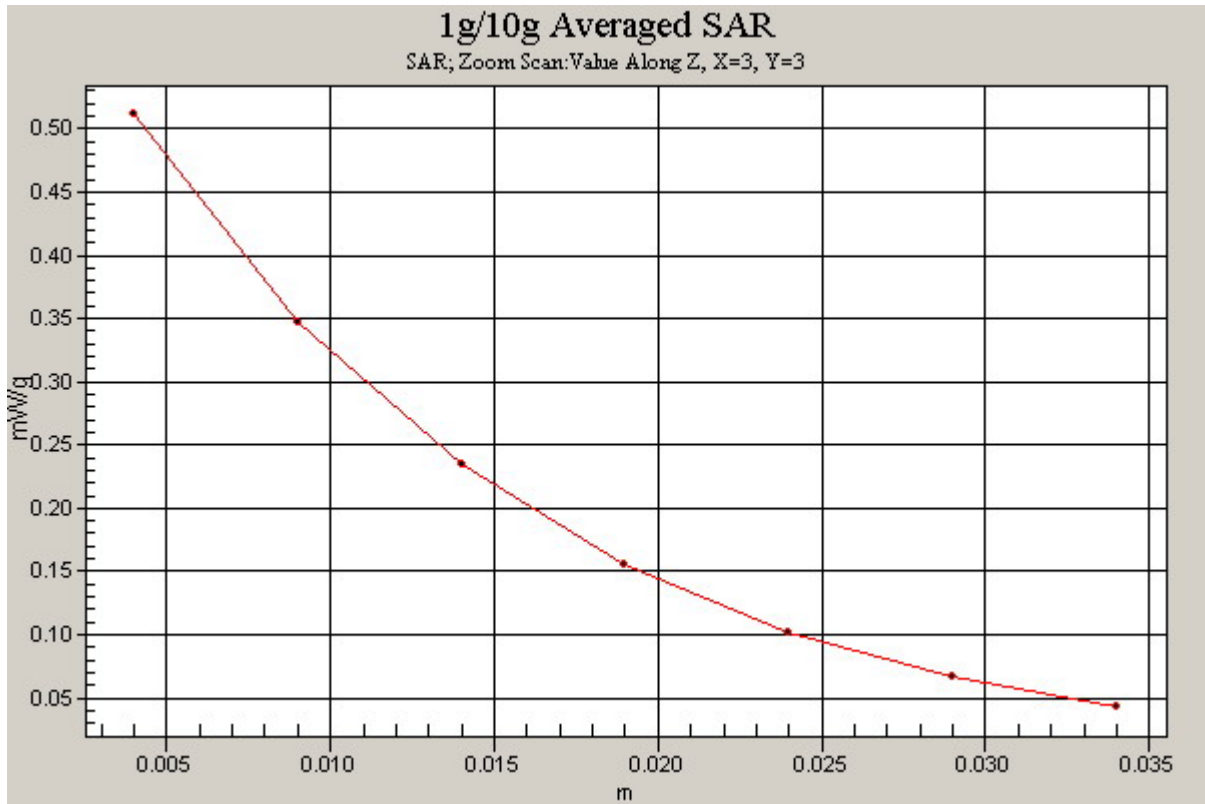


Figure. 34 Z-Scan at power reference point (Body, Towards Phantom, CDMA PCS Channel 600)

CDMA PCS Towards Phantom Low

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: Body 1900MHz

Medium parameters used: $f = 1852 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.278 mW/g

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

Reference Value = 11.5 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.267 mW/g

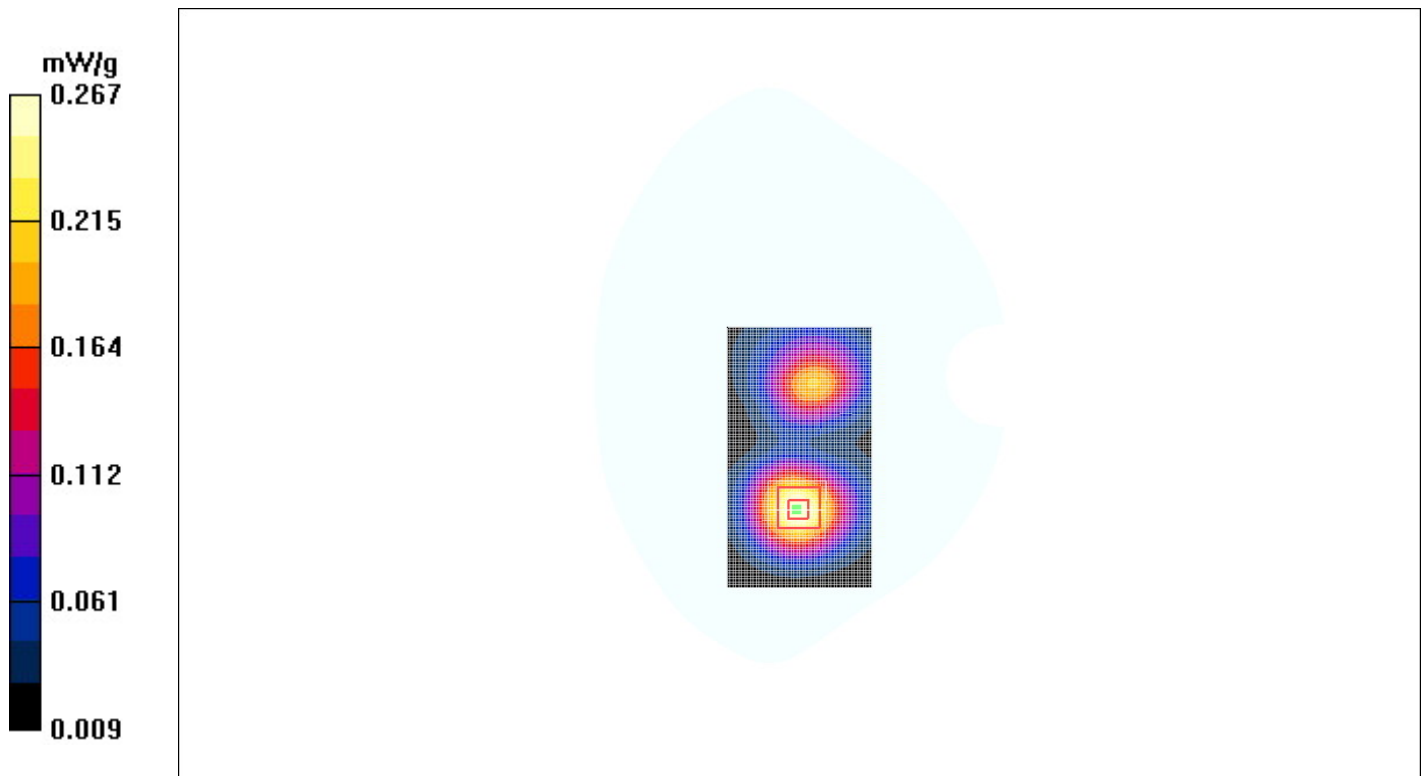


Figure. 35 Body, Towards Phantom, CDMA PCS Channel 25

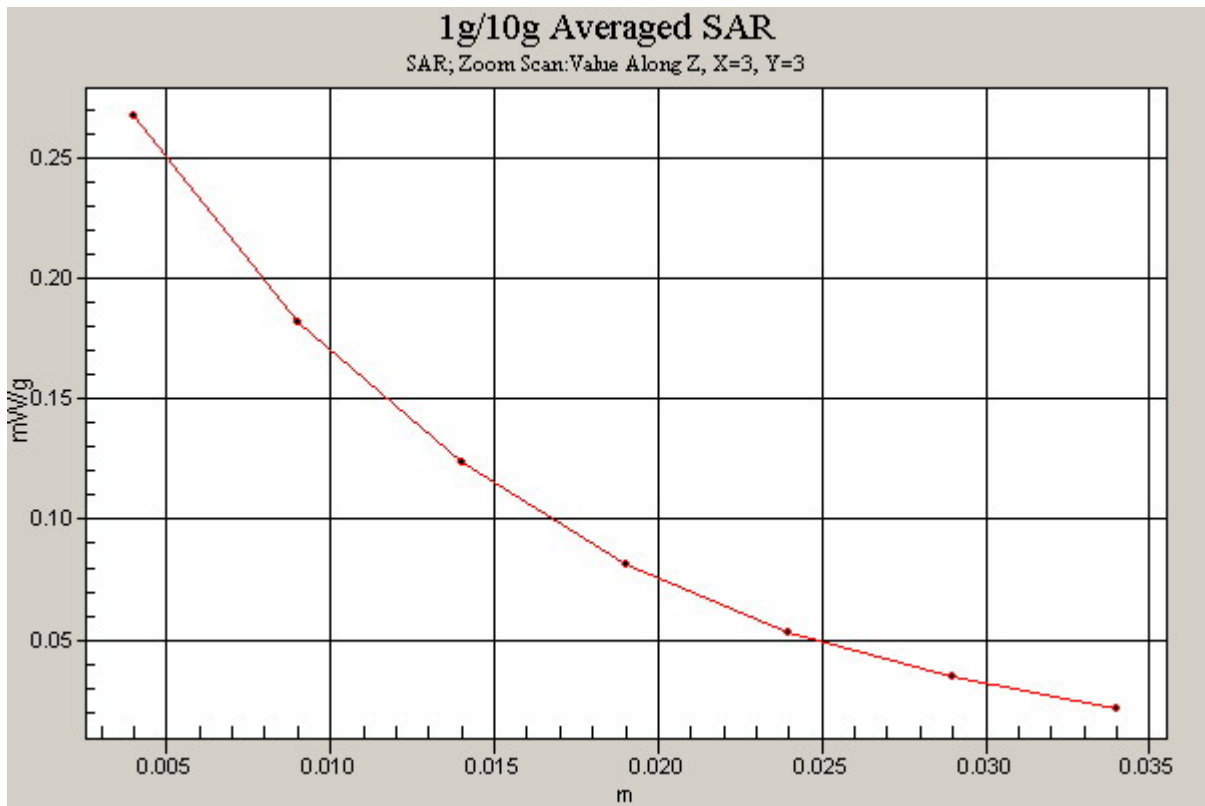


Figure. 36 Z-Scan at power reference point (Body, Towards Phantom, CDMA PCS Channel 25)

CDMA PCS Towards Ground High

Communication System: CDMA PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium: Body 1900MHz

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.482 mW/g

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

Reference Value = 13.7 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.650 W/kg

SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.260 mW/g

Maximum value of SAR (measured) = 0.446 mW/g

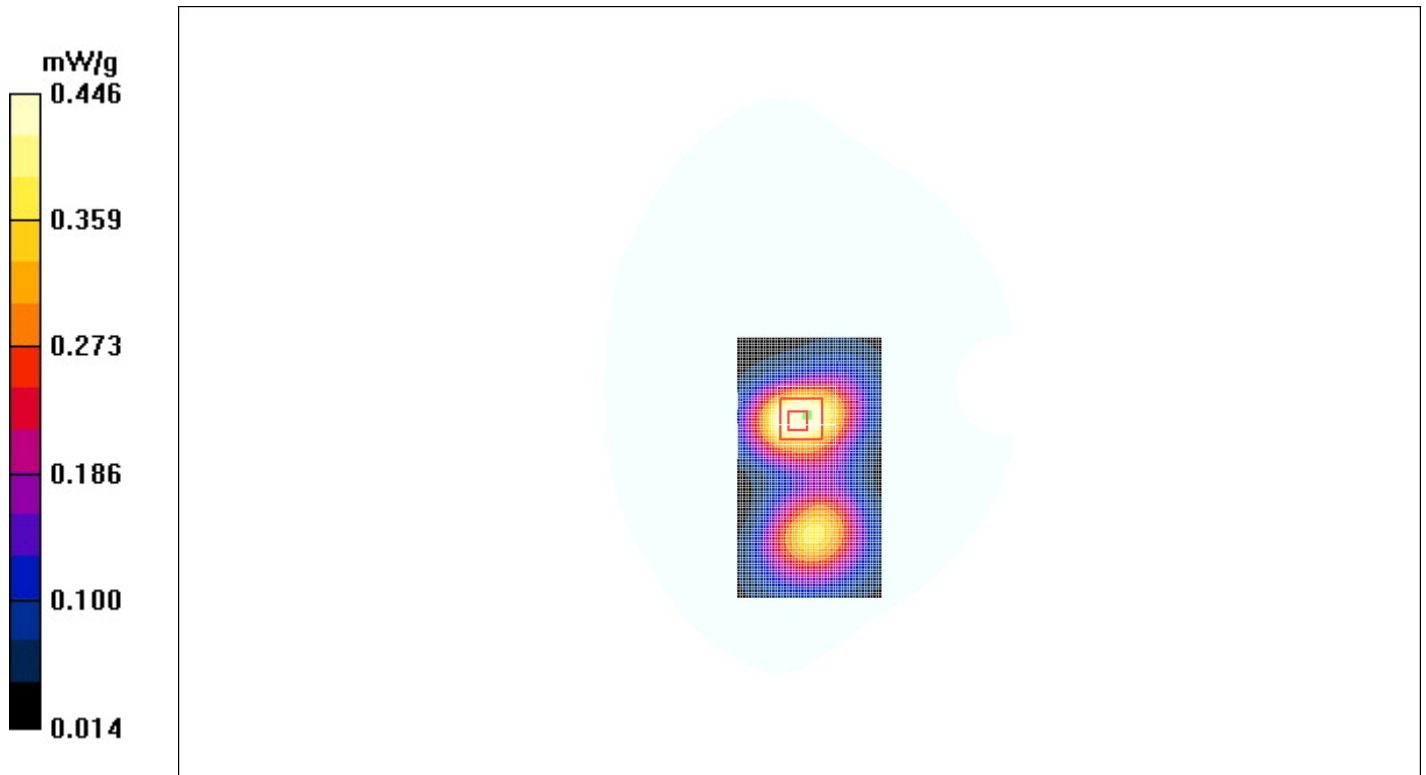


Figure. 37 Body, Towards Ground, CDMA PCS Channel 1175

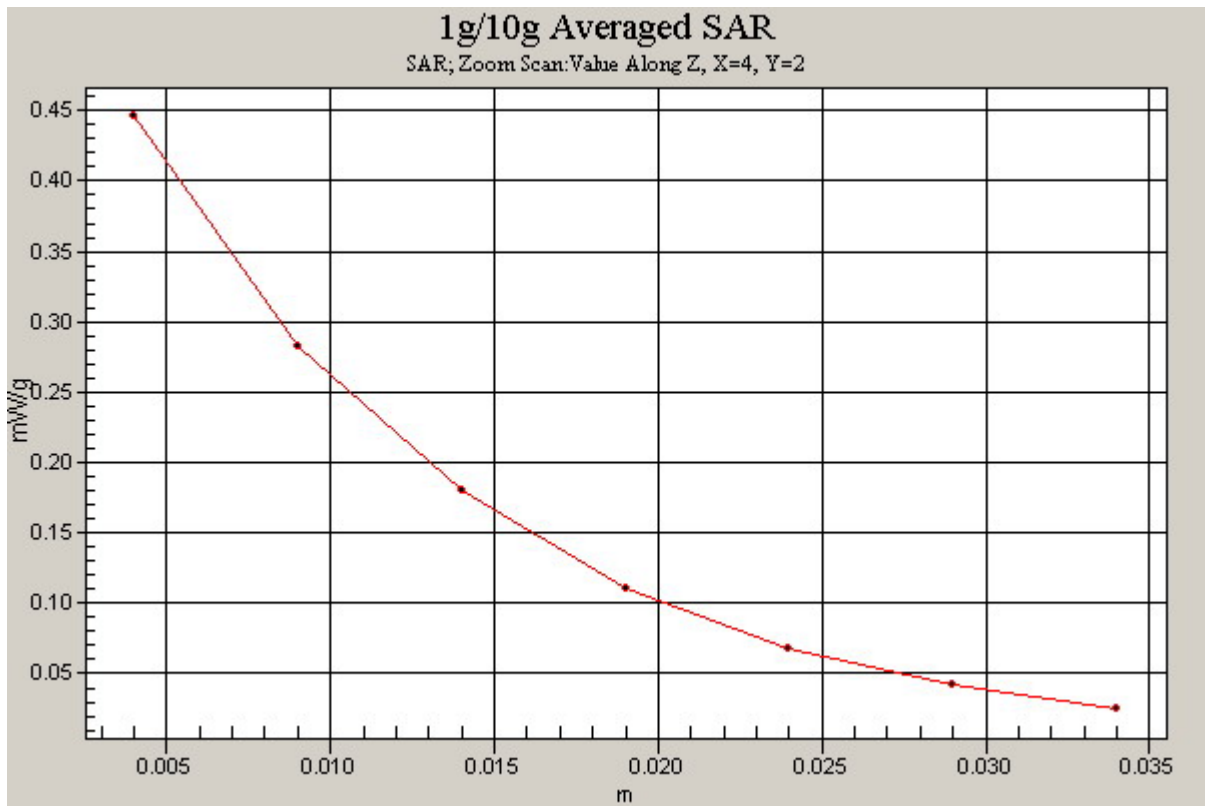


Figure. 38 Z-Scan at power reference point (Body, Towards Ground, CDMA PCS Channel 1175)

CDMA PCS Towards Ground Middle

Communication System: CDMA PCS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Body 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.558 mW/g

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

Reference Value = 14.6 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.301 mW/g

Maximum value of SAR (measured) = 0.515 mW/g

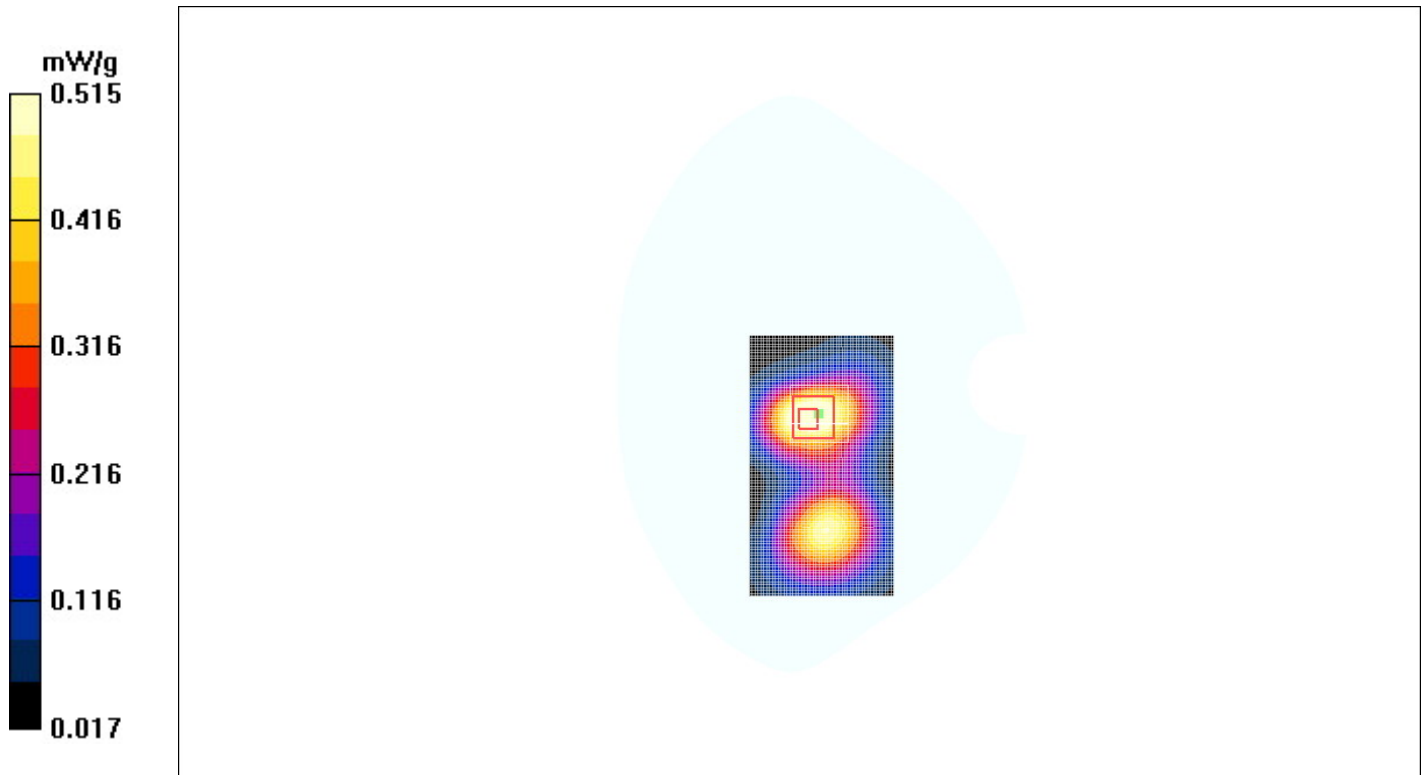


Figure. 39 Body, Towards Ground, CDMA PCS Channel 600

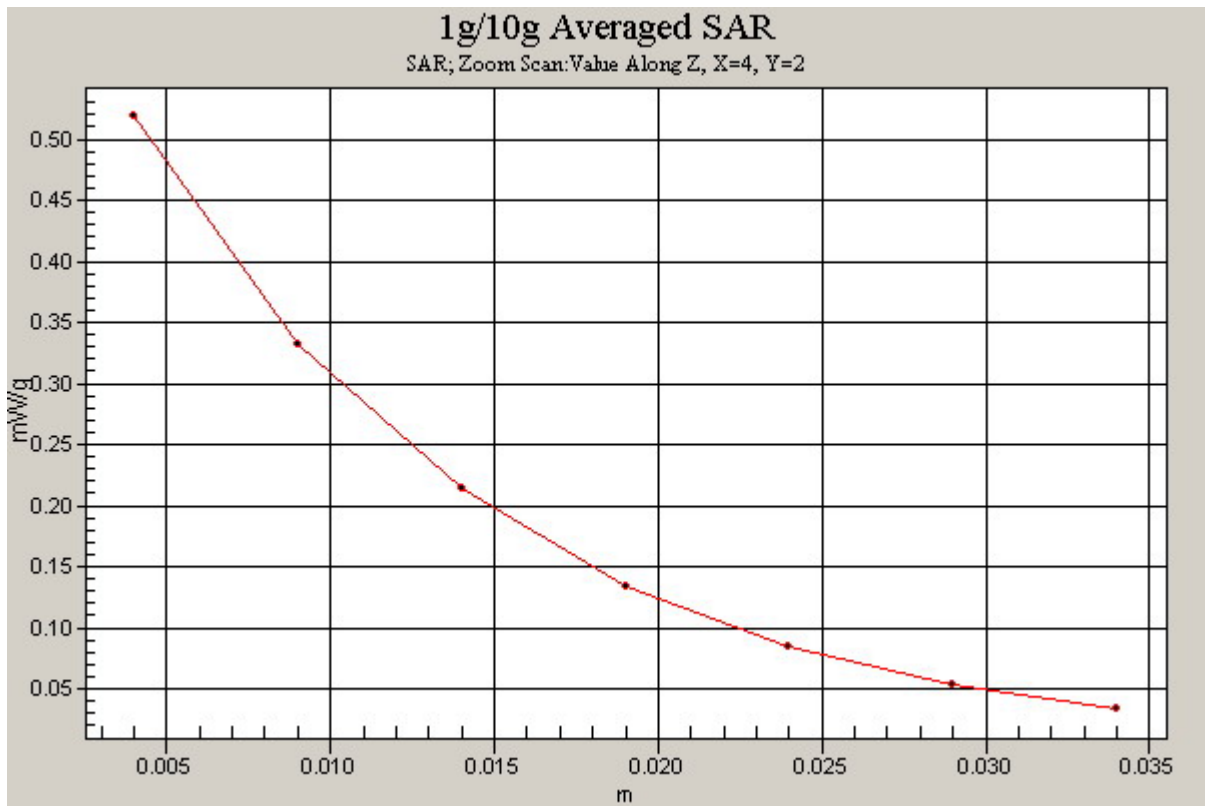


Figure. 40 Z-Scan at power reference point (Body, Towards Ground, CDMA PCS Channel 600)

CDMA PCS Towards Ground Low

Communication System: CDMA PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: Body 1900MHz

Medium parameters used: $f = 1852 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

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

Maximum value of SAR (interpolated) = 0.456 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 = 13.0 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 0.415 mW/g

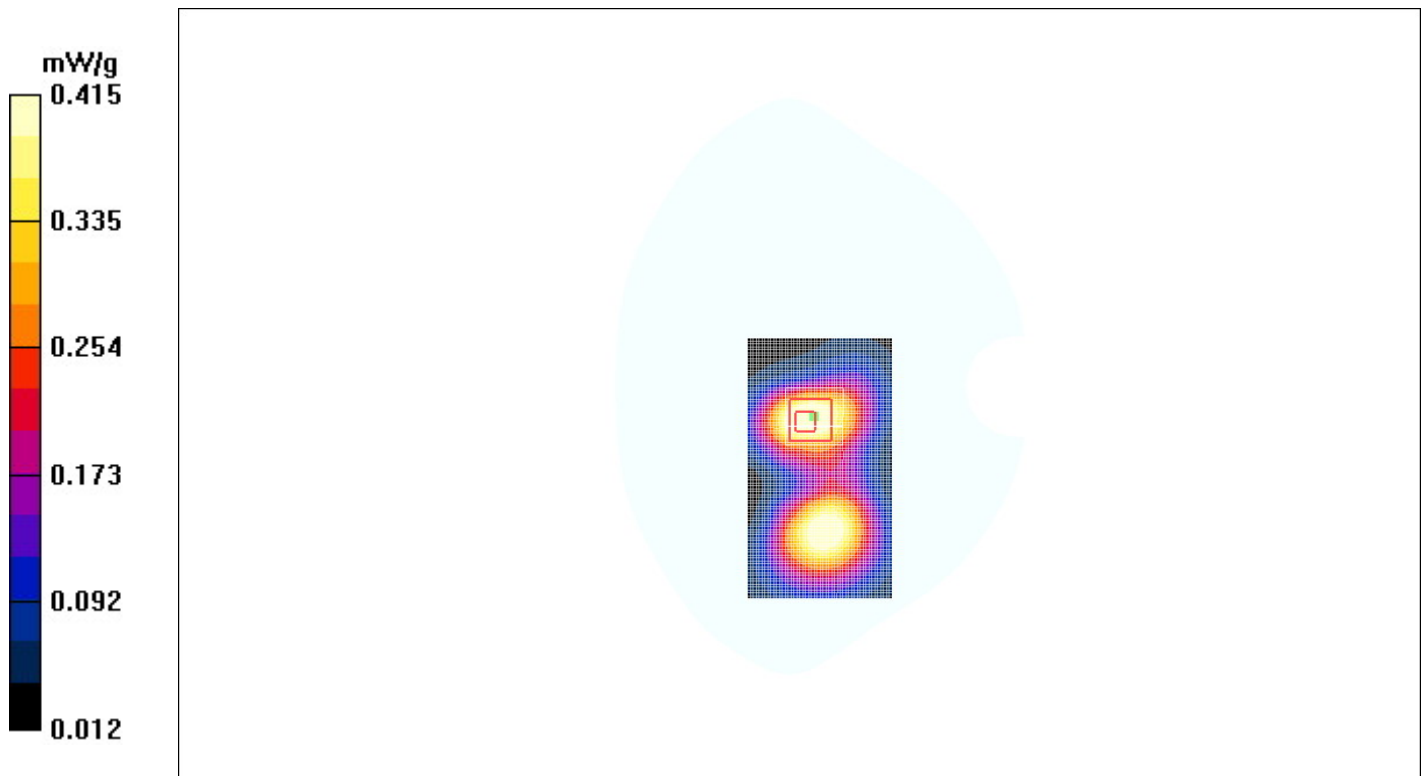


Figure. 41 Body, Towards Ground, CDMA PCS Channel 25

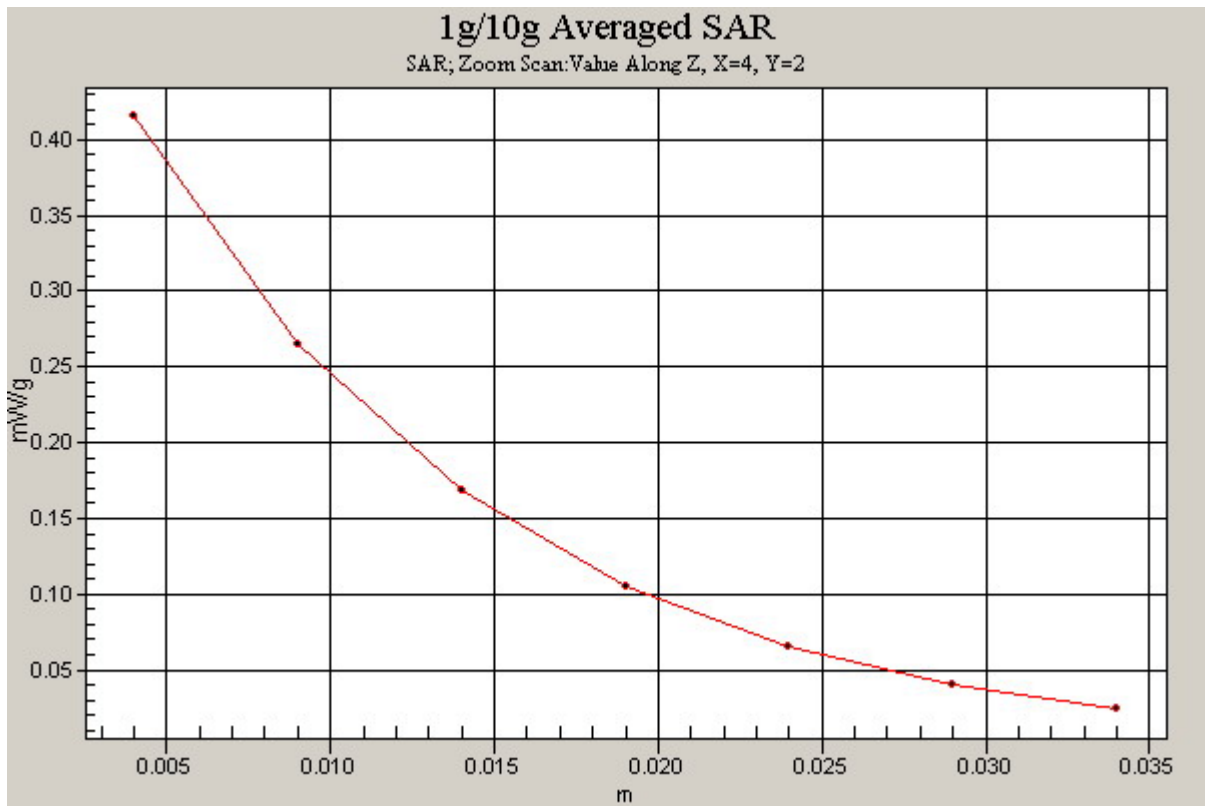


Figure. 42 Z-Scan at power reference point (Body, Towards Ground, CDMA PCS Channel 25)

ANNEX D: SYSTEM VALIDATION RESULTS

System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 541

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

Medium: Head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1737; ConvF(4.64, 4.64, 4.64);

- Electronics: DAE3 Sn452;

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.7 mW/g

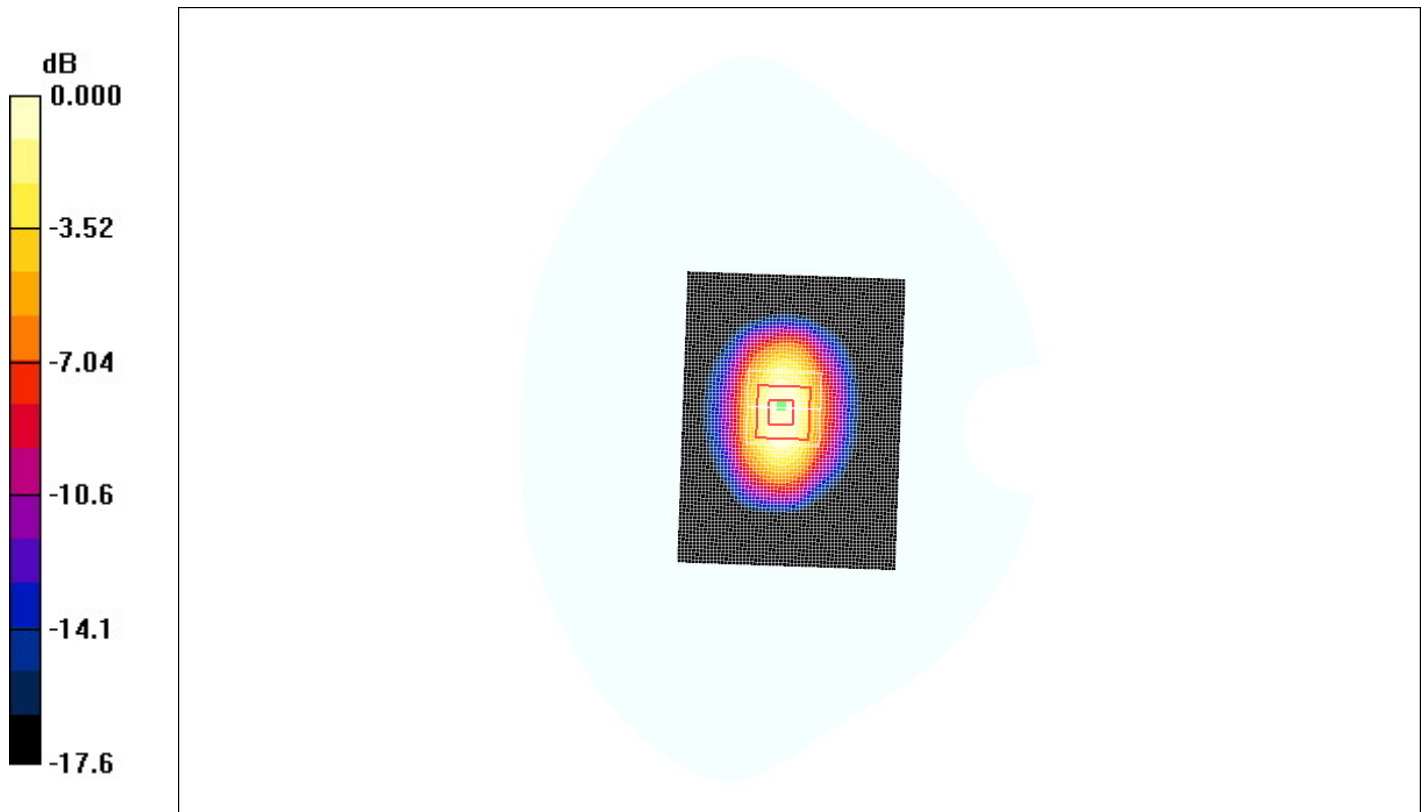
d=10mm, Pin=250mW/Zoom Scan (7x7x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.4 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.69 mW/g; SAR(10 g) = 5.12 mW/g

Maximum value of SAR (measured) = 10.9 mW/g



0 dB = 10.9mW/g

Figure.43 System Performance Check 1900MHz 250mW

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No. RZA2007-1137

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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 Federal Office of Metrology and Accreditation
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 **TMC-Auden**

Certificate No: **ET3-1737_Feb07**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1737**

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

Calibration date: **February 19, 2007**

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&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	5-Apr-06 (METAS, No. 251-00557)	Apr-07
Power sensor E4412A	MY41495277	5-Apr-06 (METAS, No. 251-00557)	Apr-07
Power sensor E4412A	MY41498087	5-Apr-06 (METAS, No. 251-00557)	Apr-07
Reference 3 dB Attenuator	SN: S5054 (3c)	10-Aug-06 (METAS, No. 217-00592)	Aug-07
Reference 20 dB Attenuator	SN: S5086 (20b)	4-Apr-06 (METAS, No. 251-00558)	Apr-07
Reference 30 dB Attenuator	SN: S5129 (30b)	10-Aug-06 (METAS, No. 217-00593)	Aug-07
Reference Probe ES3DV2	SN: 3013	4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Jan-08
DAE4	SN: 654	21-Jun-06 (SPEAG, No. DAE4-654_Jun06)	Jun-07
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: February 19, 2007

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