

850 Left Tilt High

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.903$ mho/m; $\epsilon_r = 41.188$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Tilt High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.259 mW/g

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

Reference Value = 9.522 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.302 mW/g

SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.256 mW/g

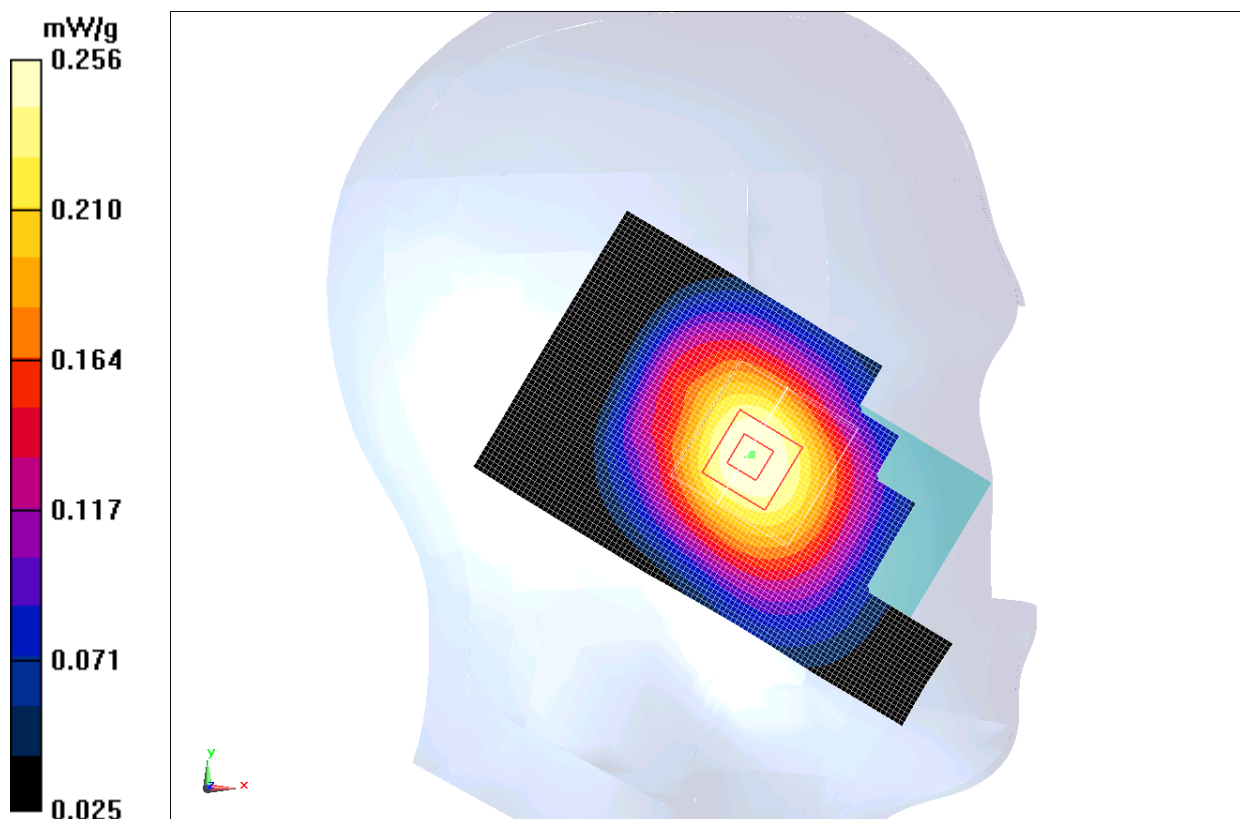


Fig.4 850 MHz CH251

850 Left Tilt Middle

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.345$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.202 mW/g

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

Reference Value = 8.629 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.235 mW/g

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.199 mW/g

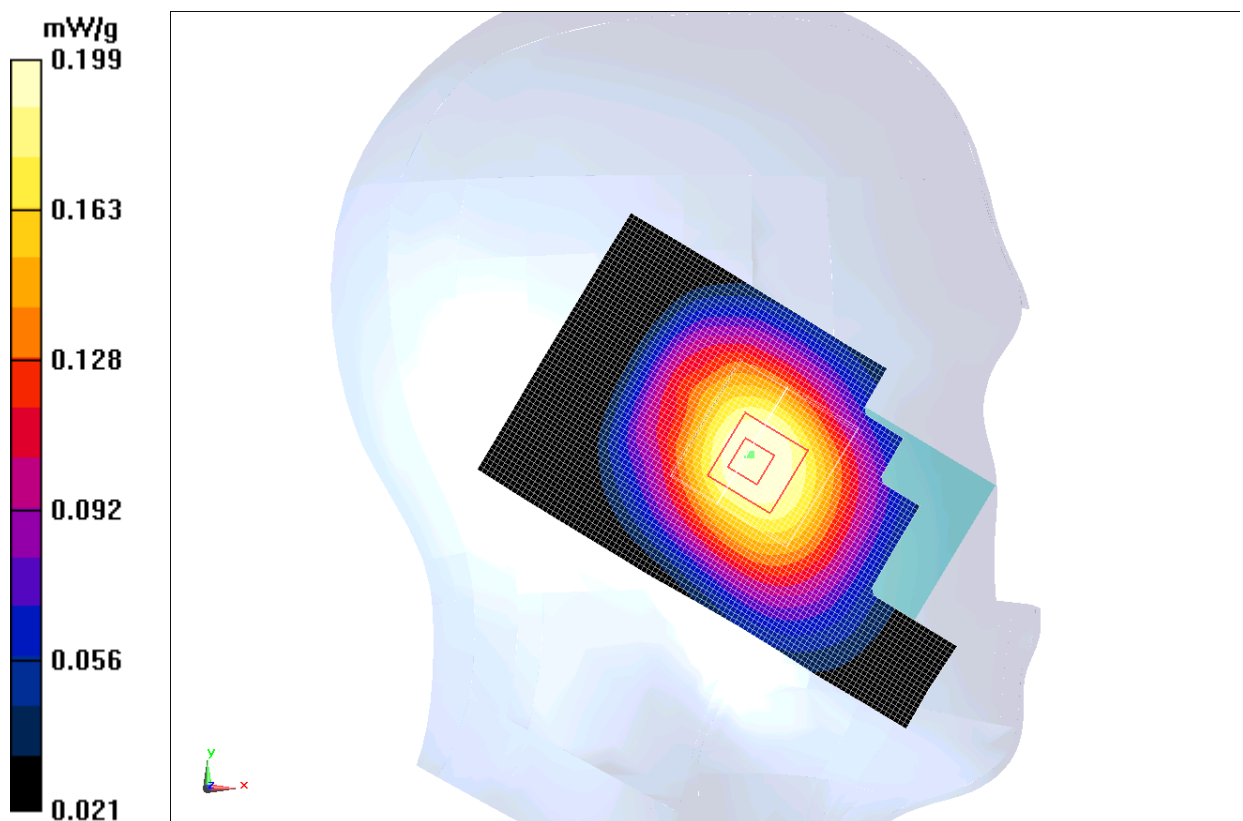


Fig.5 850 MHz CH190

850 Left Tilt Low

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used: $f = 825$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.485$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 824.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Tilt Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.152 mW/g

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

Reference Value = 7.451 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.177 mW/g

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.151 mW/g

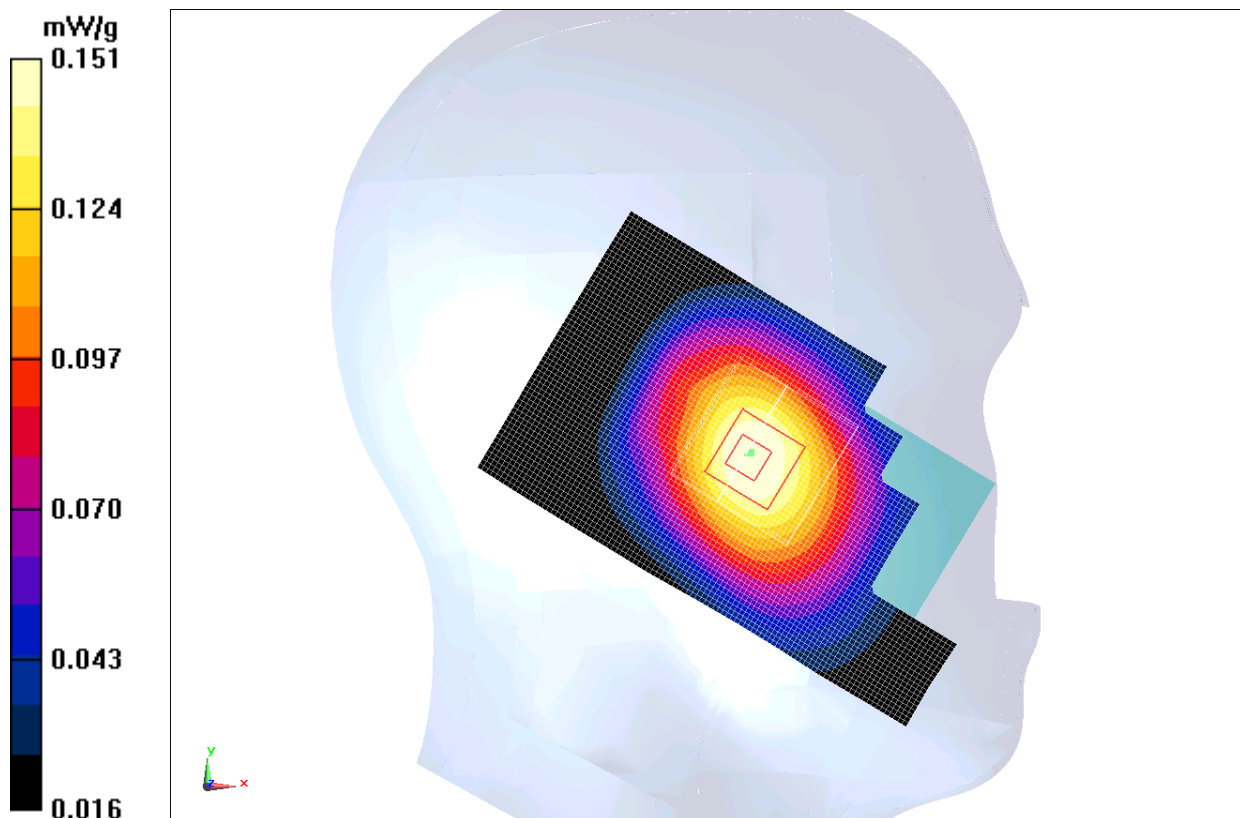


Fig. 6 850 MHz CH128

850 Right Cheek High

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.903$ mho/m; $\epsilon_r = 41.188$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM; Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Cheek High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.502 mW/g

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

Reference Value = 6.514 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.609 mW/g

SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.360 mW/g

Maximum value of SAR (measured) = 0.502 mW/g

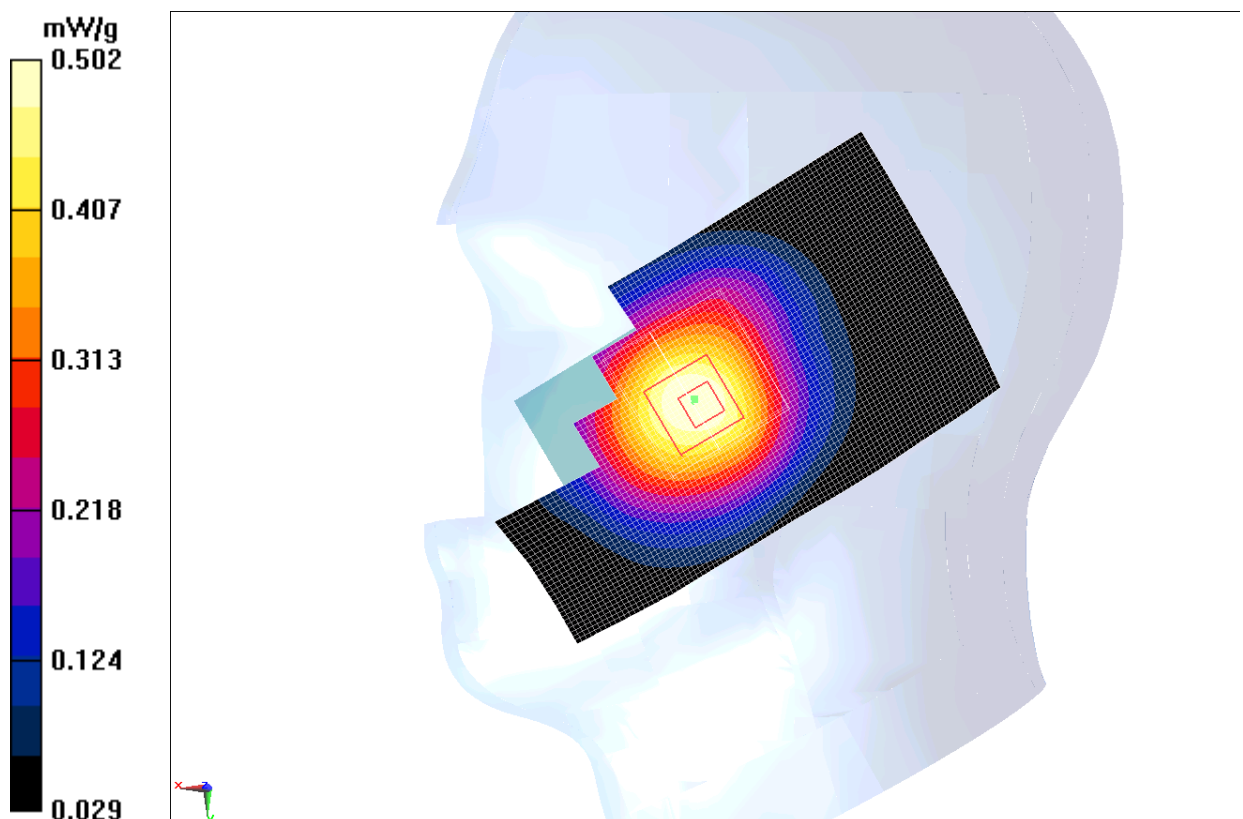


Fig. 7 850 MHz CH251

850 Right Cheek Middle

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.345$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Cheek Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 5.628 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.446 mW/g

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.266 mW/g

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

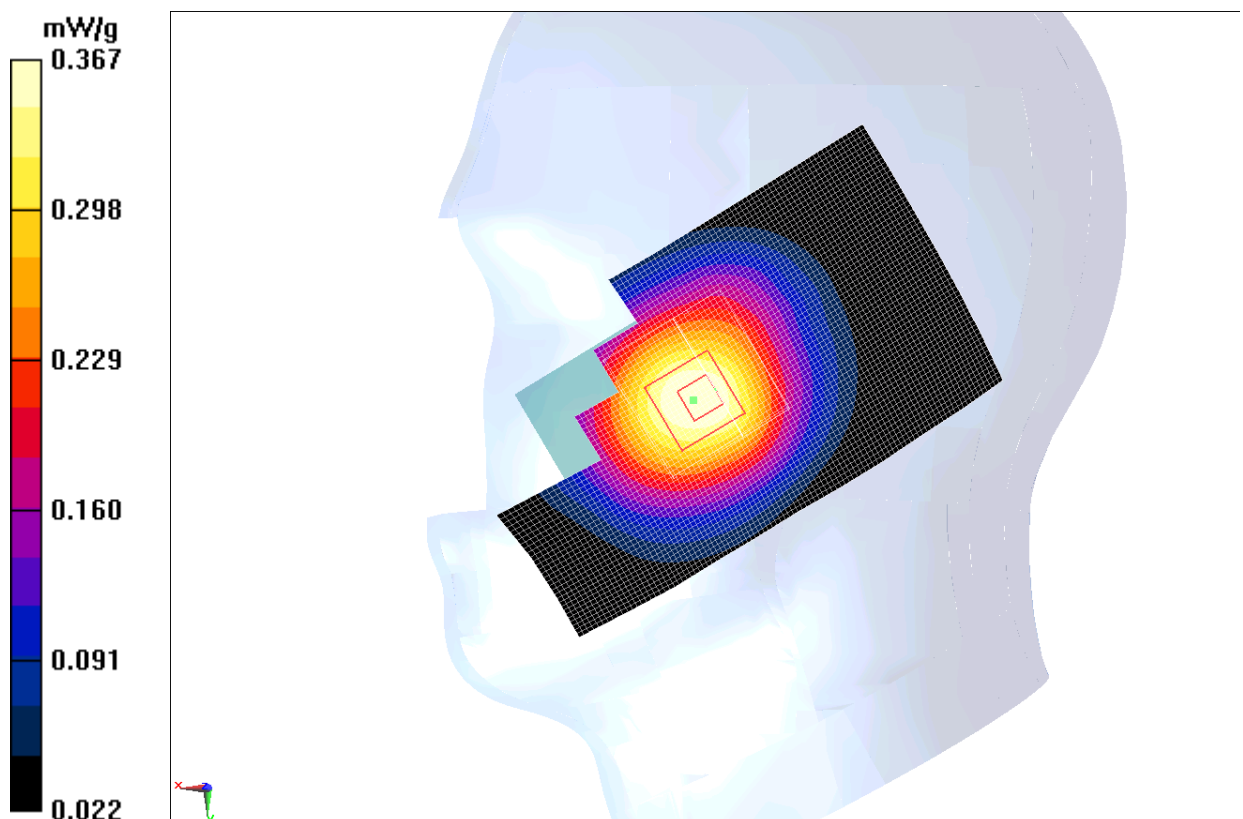


Fig. 8 850 MHz CH190

850 Right Cheek Low

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.485$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM; Frequency: 824.2 MHz ; Duty Cycle: 1:8.30042

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Cheek Low/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.262 mW/g

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

Reference Value = 4.854 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.311 mW/g

SAR(1 g) = 0.252 mW/g ; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.262 mW/g

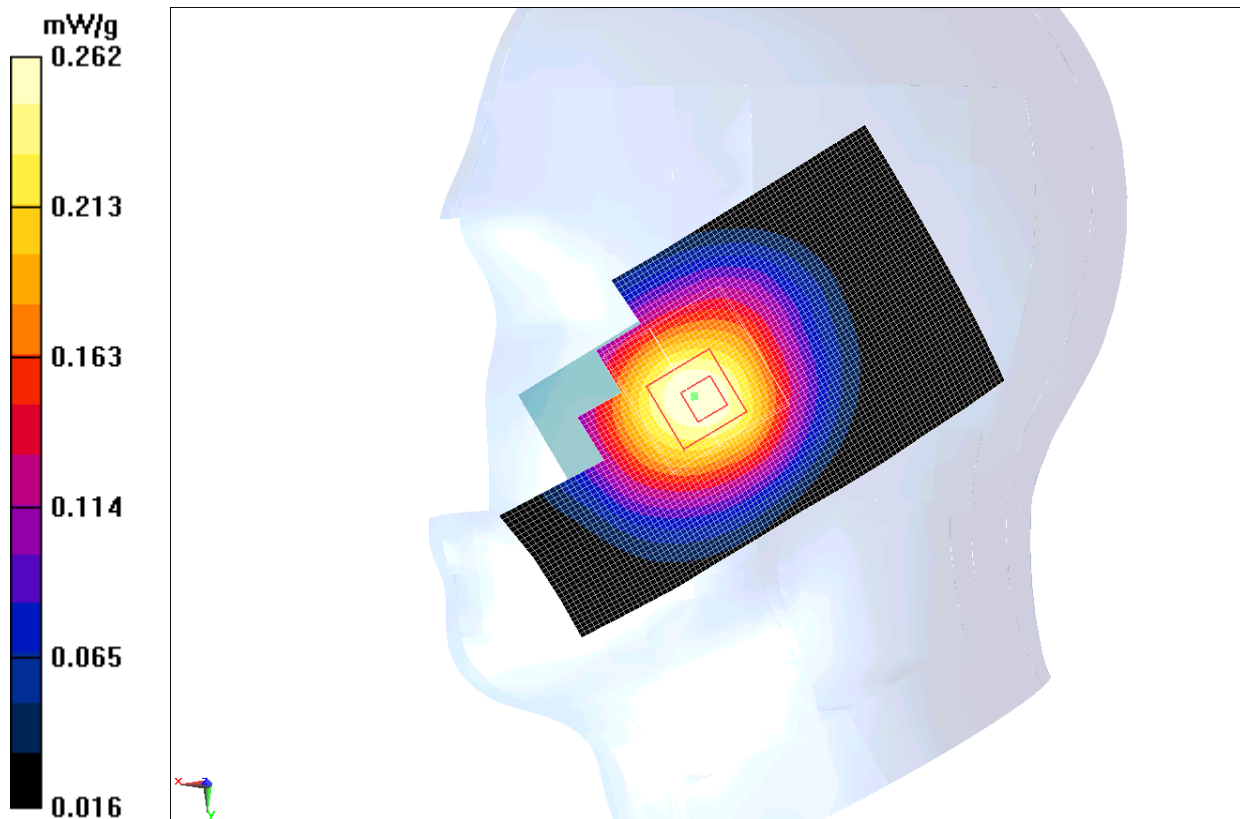


Fig. 9 850 MHz CH128

850 Right Tilt High

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.903$ mho/m; $\epsilon_r = 41.188$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Tilt High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.254 mW/g

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

Reference Value = 9.211 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.292 mW/g

SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.184 mW/g

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

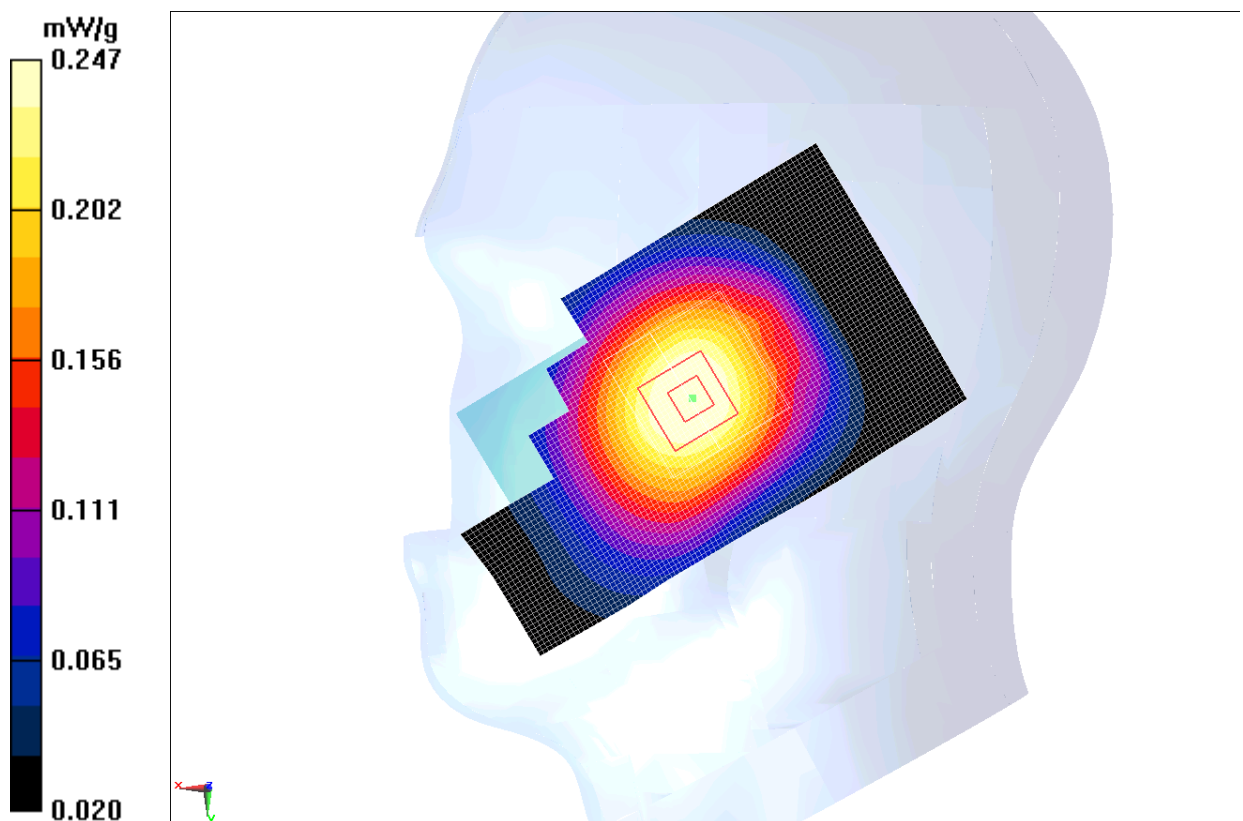


Fig.10 850 MHz CH251

850 Right Tilt Middle

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 41.345$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Tilt Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 8.630 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.253 mW/g

SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.160 mW/g

Maximum value of SAR (measured) = 0.217 mW/g

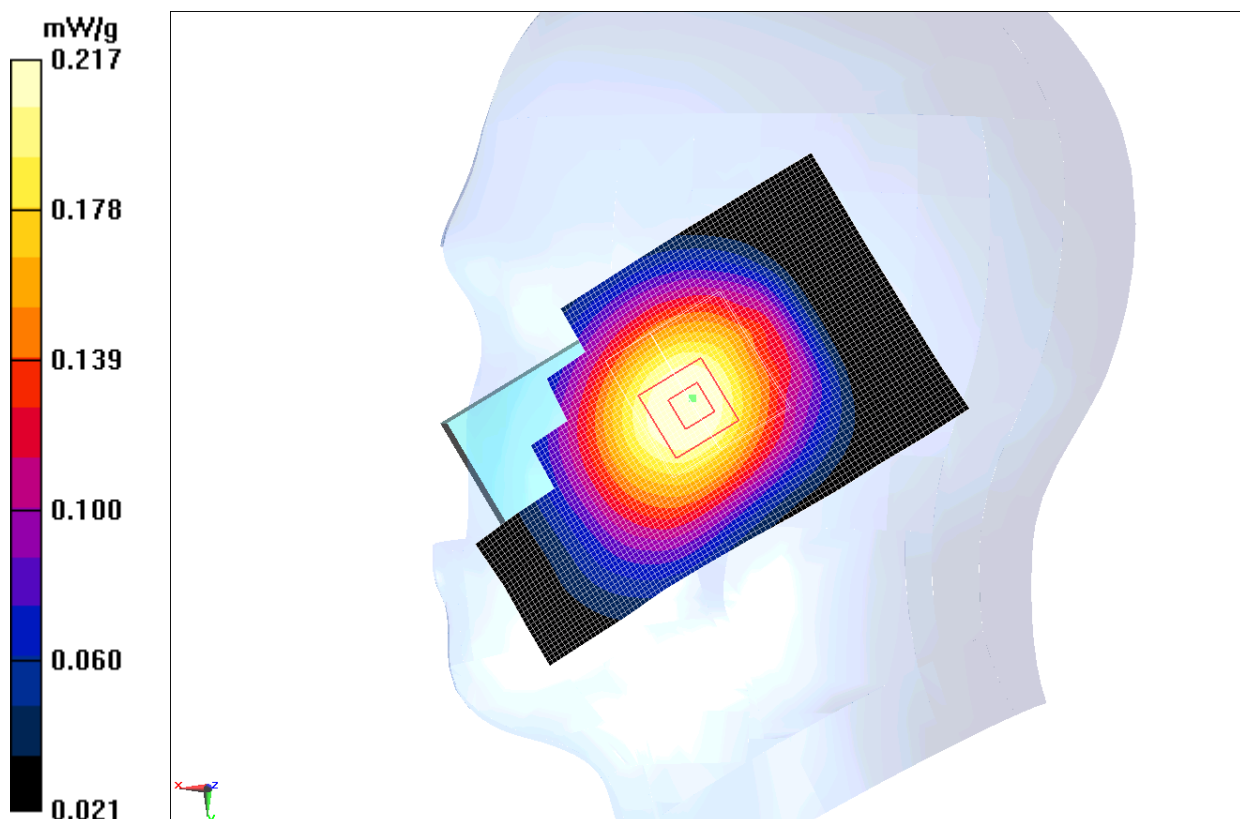


Fig.11 850 MHz CH190

850 Right Tilt Low

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Head 835 MHz

Medium parameters used: $f = 825$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 41.485$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 824.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.26, 6.26, 6.26)

Tilt Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.174 mW/g

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

Reference Value = 7.760 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.199 mW/g

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.126 mW/g

Maximum value of SAR (measured) = 0.172 mW/g

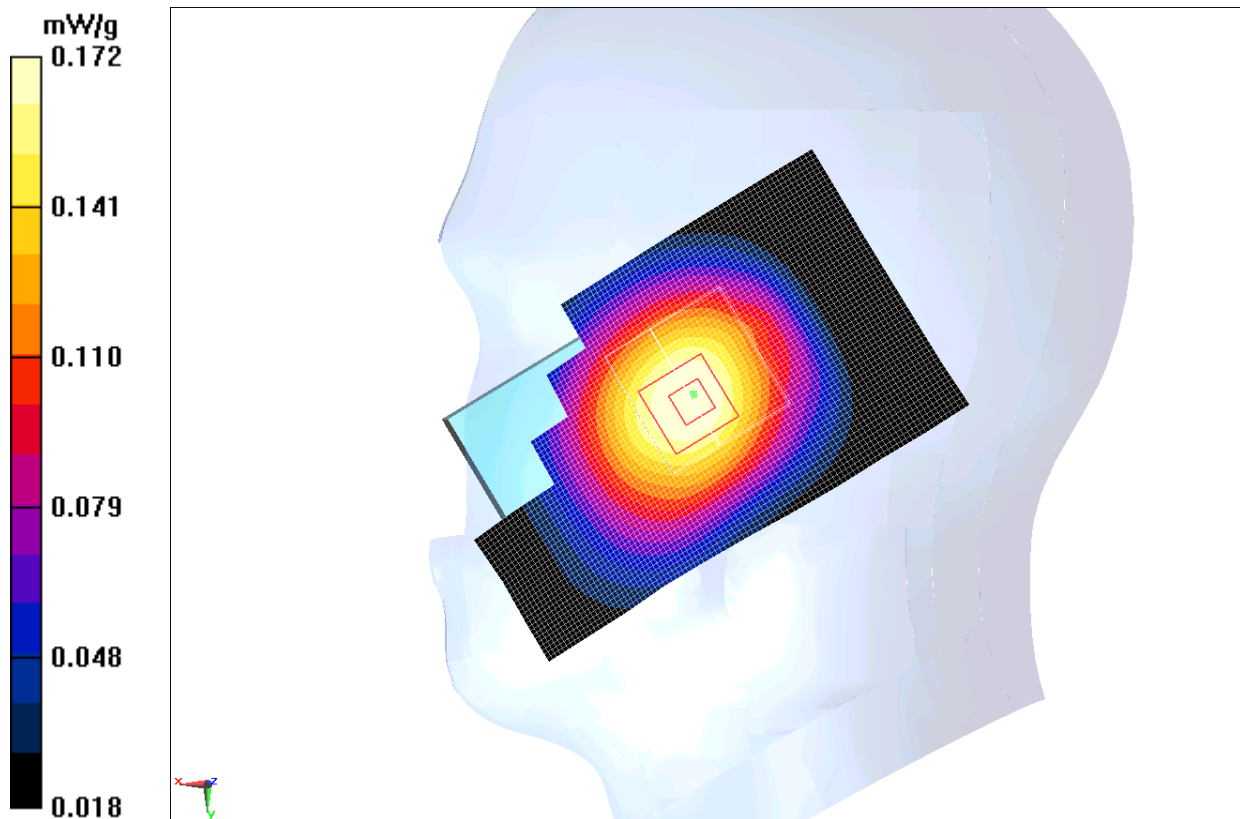


Fig. 12 850 MHz CH128

850 Body Toward Phantom High

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 1.019$ mho/m; $\epsilon_r = 53.691$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Phantom High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.547 mW/g

Toward Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.005 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.660 mW/g

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.377 mW/g

Maximum value of SAR (measured) = 0.541 mW/g

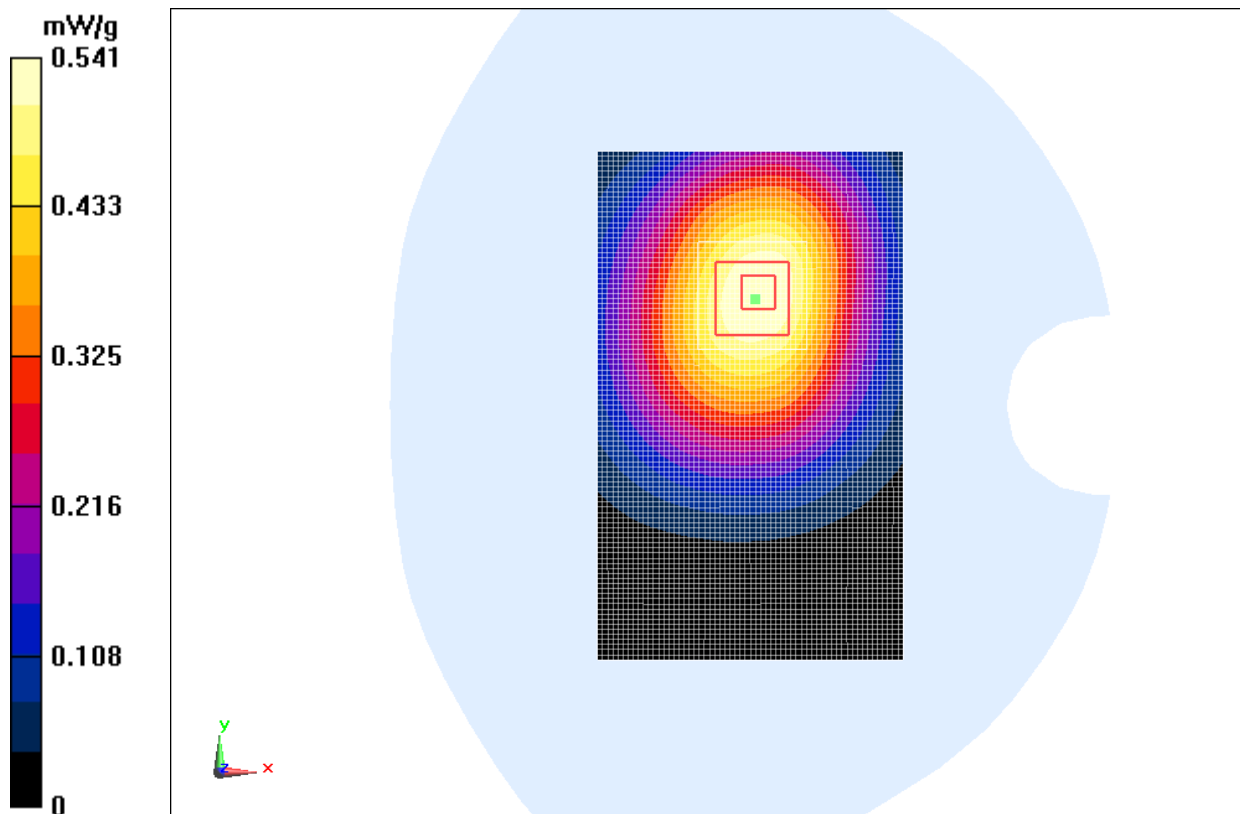


Fig. 13 850 MHz CH251

850 Body Toward Phantom Middle

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 1.006$ mho/m; $\epsilon_r = 53.807$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Phantom Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

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

Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.559 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.702 mW/g

SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.403 mW/g

Maximum value of SAR (measured) = 0.578 mW/g

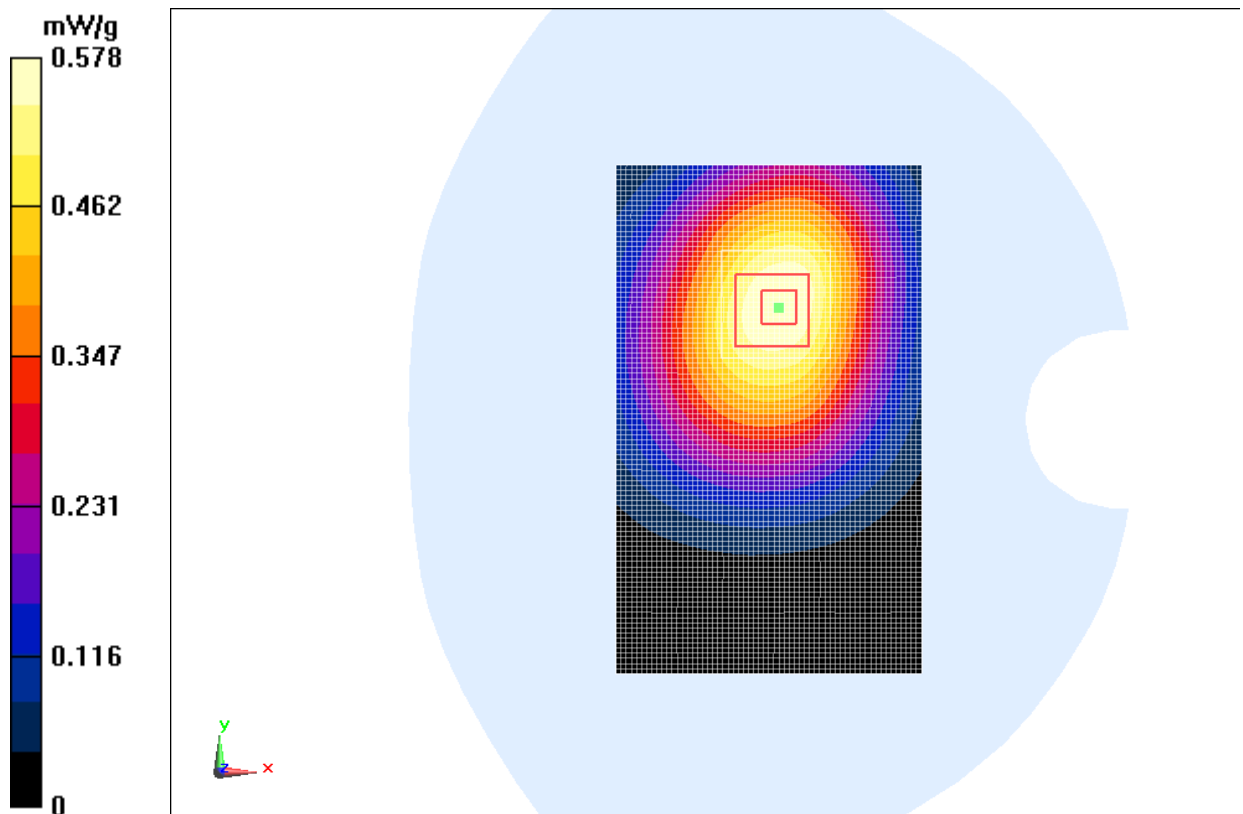


Fig. 14 850 MHz CH190

850 Body Toward Phantom Low

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.993 \text{ mho/m}$; $\epsilon_r = 53.934$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Phantom Low/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.528 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.575 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.654 mW/g

SAR(1 g) = 0.501 mW/g ; SAR(10 g) = 0.367 mW/g

Maximum value of SAR (measured) = 0.529 mW/g

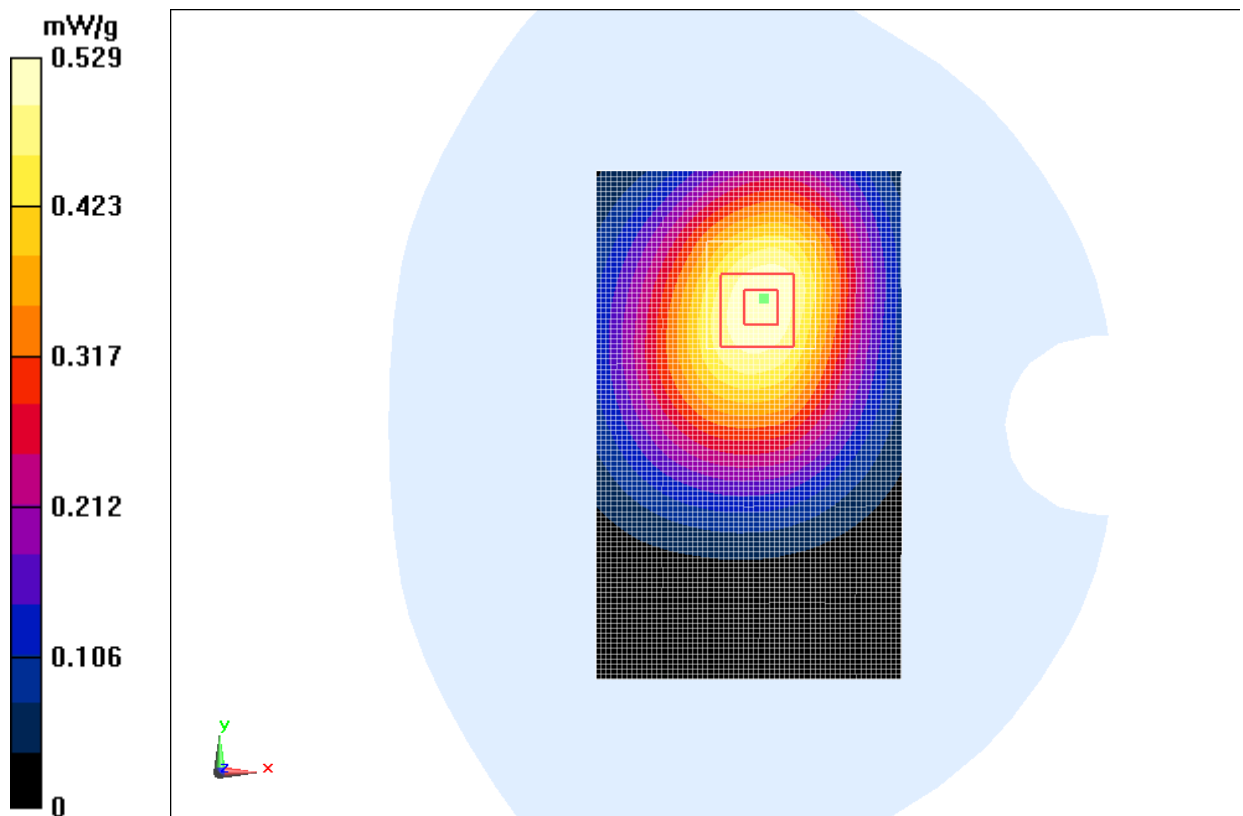


Fig. 15 850 MHz CH128

850 Body Toward Ground High

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 1.019$ mho/m; $\epsilon_r = 53.691$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.695 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.510 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.864 mW/g

SAR(1 g) = 0.650 mW/g; SAR(10 g) = 0.463 mW/g

Maximum value of SAR (measured) = 0.686 mW/g

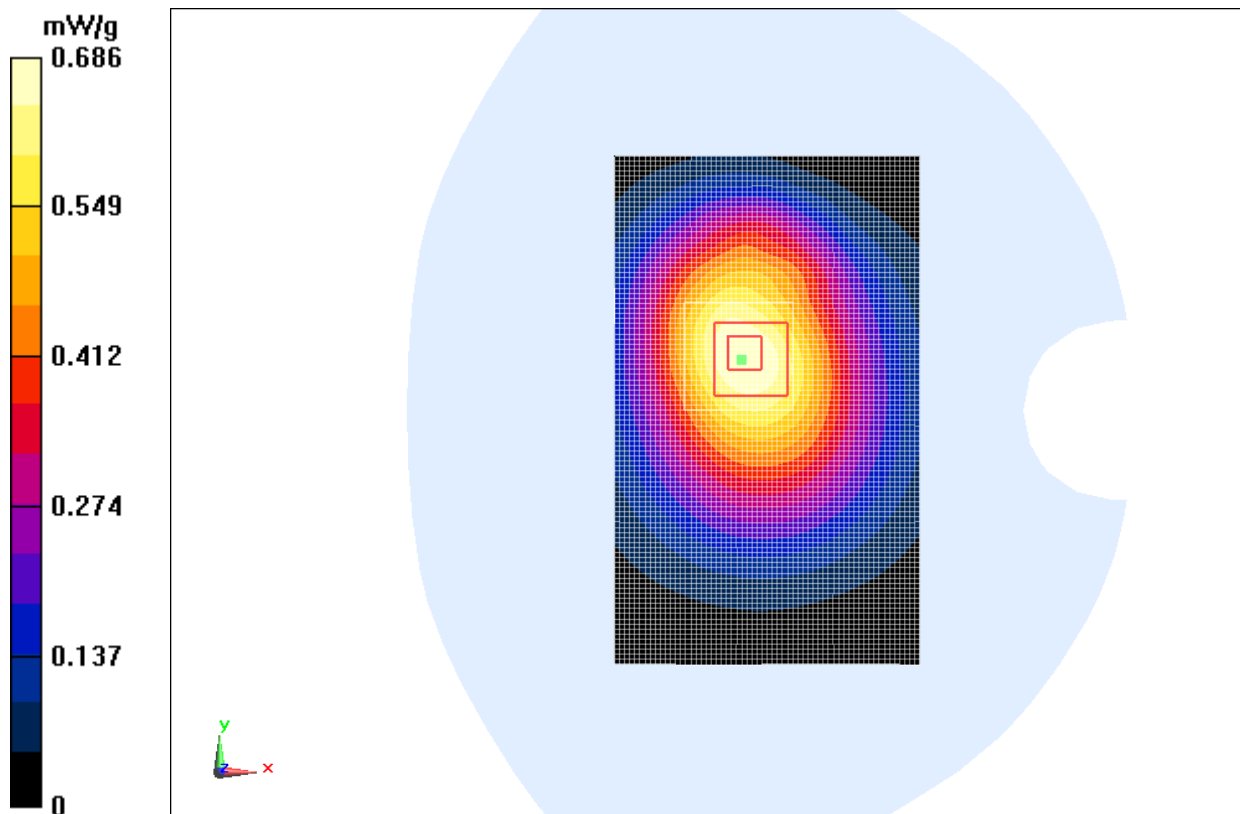


Fig. 16 850 MHz CH251

850 Body Toward Ground Middle

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 1.006$ mho/m; $\epsilon_r = 53.807$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.731 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.151 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.909 mW/g

SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (measured) = 0.726 mW/g

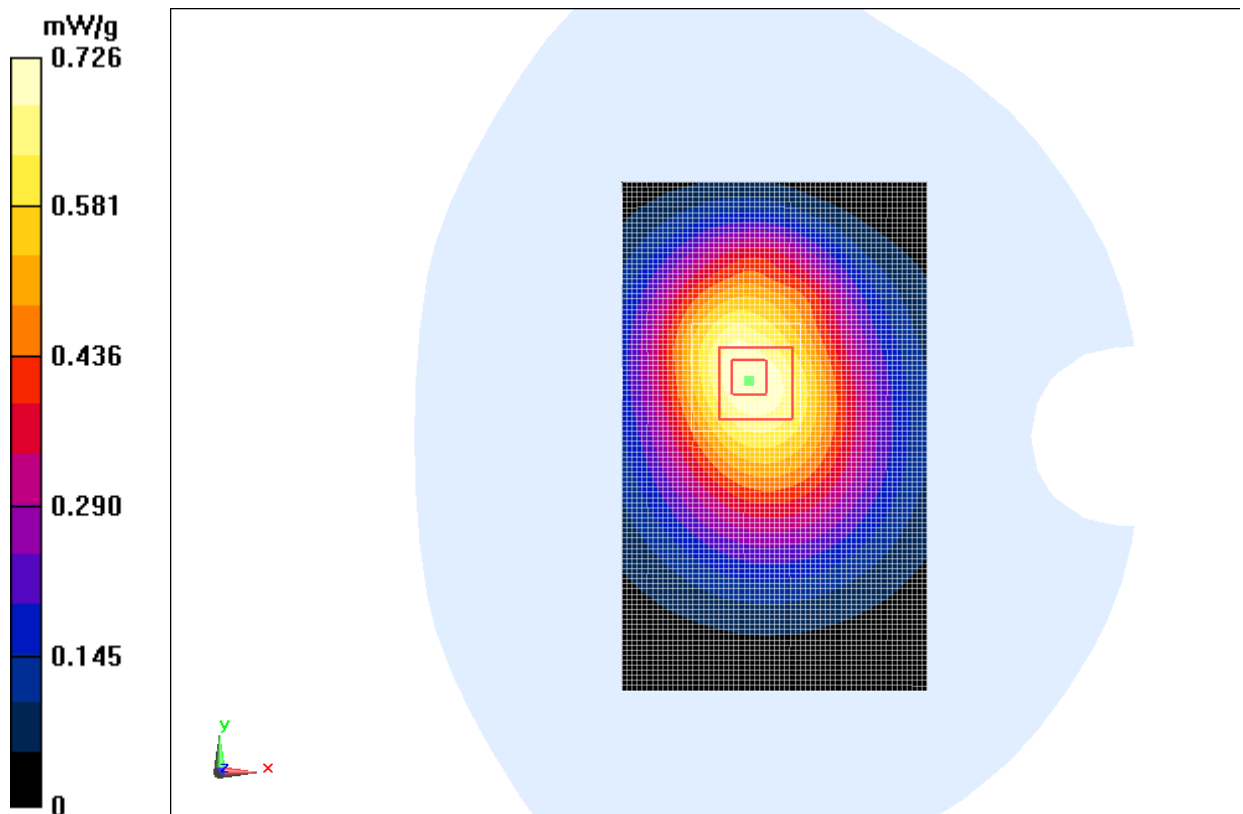


Fig. 17 850 MHz CH190

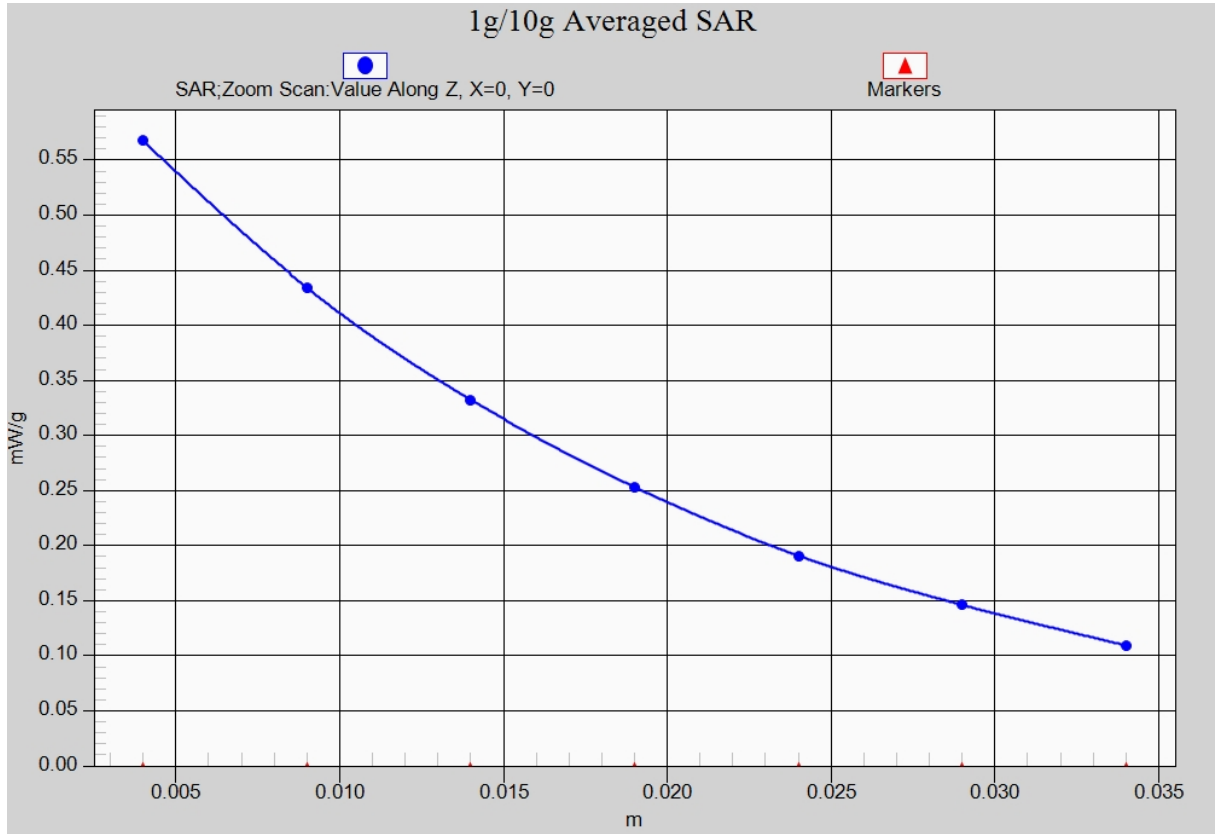


Fig. 17-1 Z-Scan at power reference point (850 MHz CH190)

850 Body Toward Ground Low

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used: $f = 825$ MHz; $\sigma = 0.993$ mho/m; $\epsilon_r = 53.934$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.680 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.213 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.850 mW/g

SAR(1 g) = 0.636 mW/g; SAR(10 g) = 0.452 mW/g

Maximum value of SAR (measured) = 0.676 mW/g

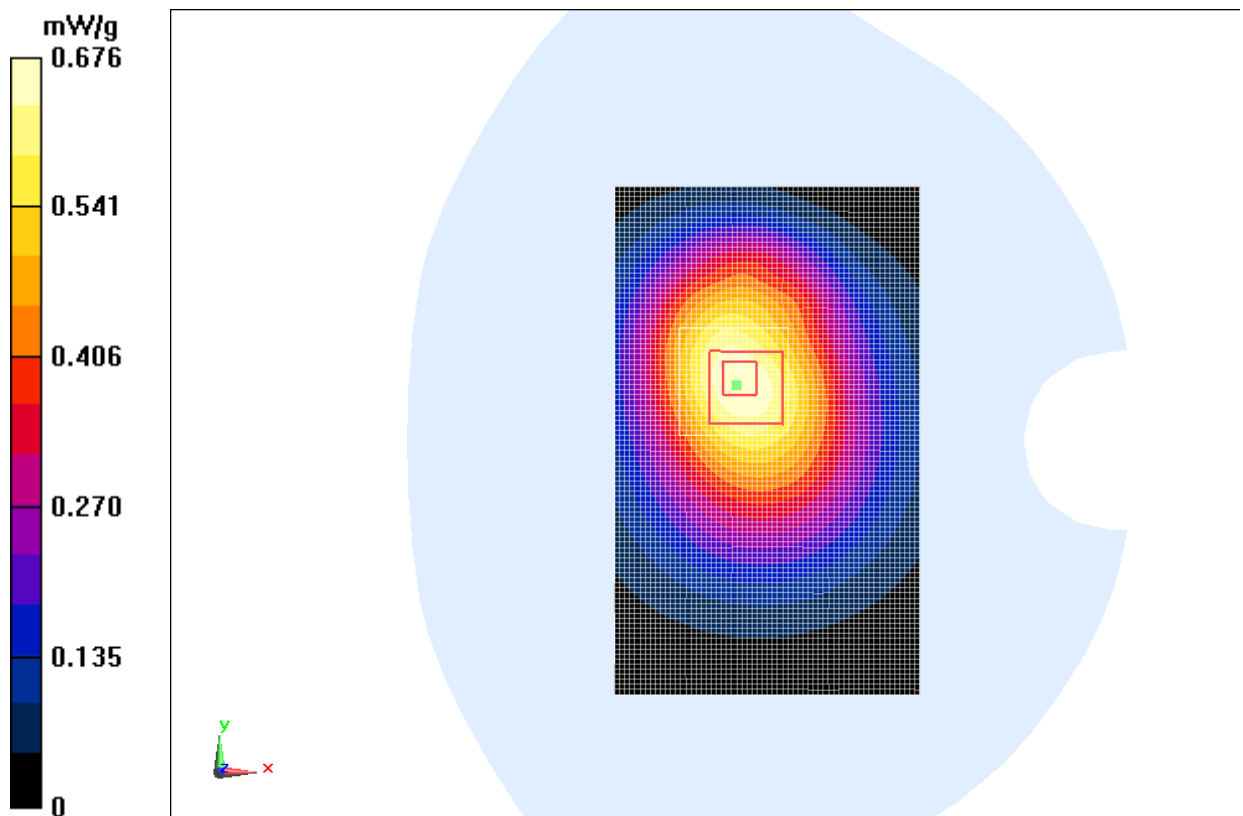


Fig. 18 850 MHz CH128

850 Body Toward Ground Middle with EGPRS

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 1.006$ mho/m; $\epsilon_r = 53.807$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 EGPRS Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.718 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.997 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.912 mW/g

SAR(1 g) = 0.675 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 0.717 mW/g

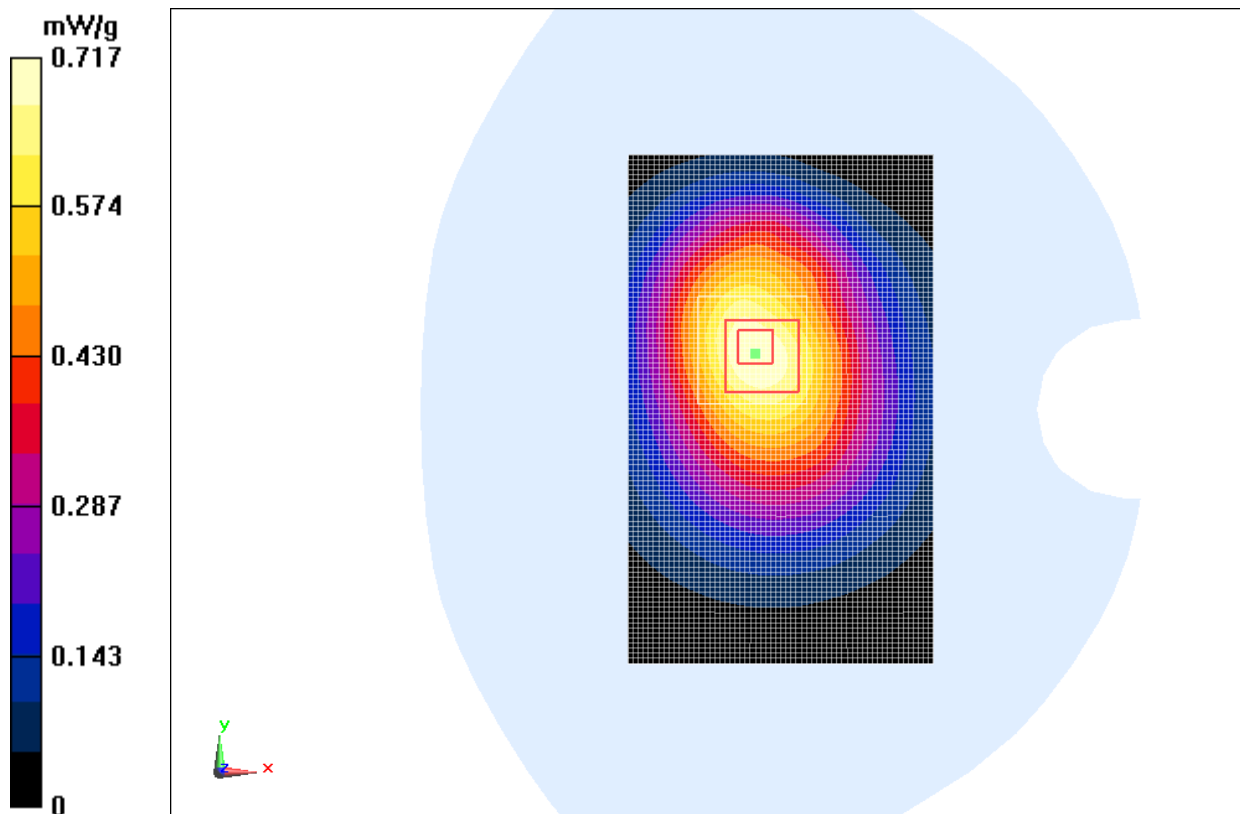


Fig. 19 850 MHz CH190

850 Body Toward Ground Middle with Headset CCB3000A12C1

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 1.006$ mho/m; $\epsilon_r = 53.807$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.388 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.140 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.476 mW/g

SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.266 mW/g

Maximum value of SAR (measured) = 0.387 mW/g

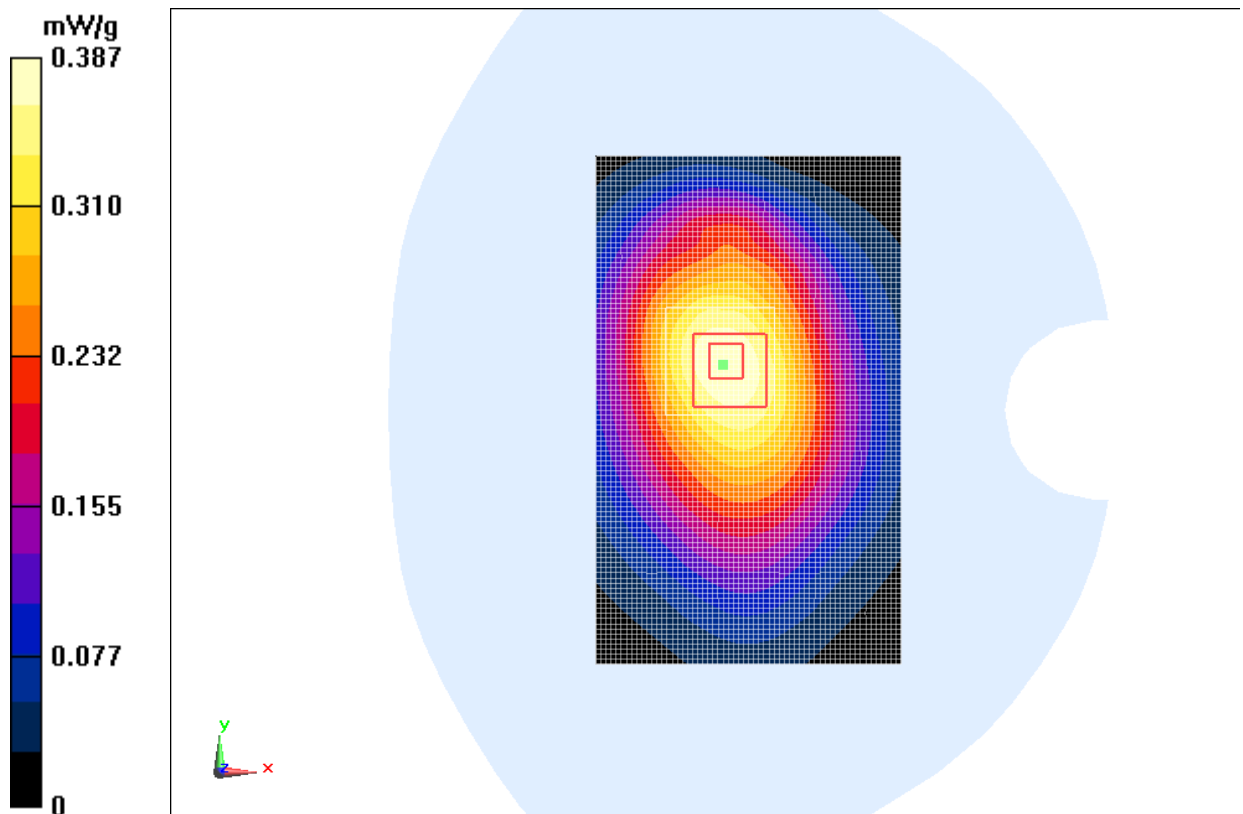


Fig. 20 850 MHz CH190

850 Body Toward Ground Middle with Headset CCB3000A12C2

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 1.006$ mho/m; $\epsilon_r = 53.807$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.334 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.667 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.436 mW/g

SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.222 mW/g

Maximum value of SAR (measured) = 0.338 mW/g

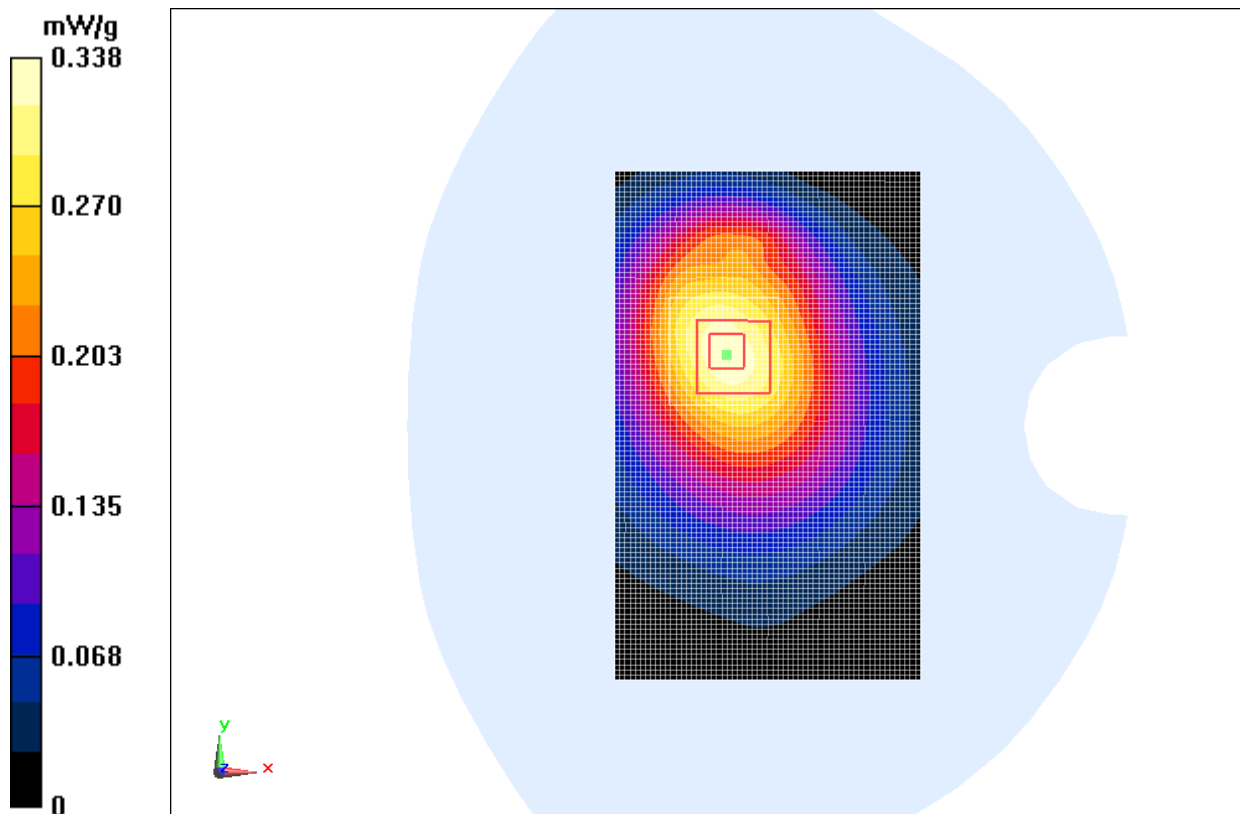


Fig. 21 850 MHz CH190

850 Body Toward Ground Middle with battery CAB31L0000C2

Date: 2012-7-18

Electronics: DAE4 Sn771

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 1.006$ mho/m; $\epsilon_r = 53.807$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3149 ConvF(6.14, 6.14, 6.14)

Toward Ground Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.675 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.337 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.849 mW/g

SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.454 mW/g

Maximum value of SAR (measured) = 0.671 mW/g

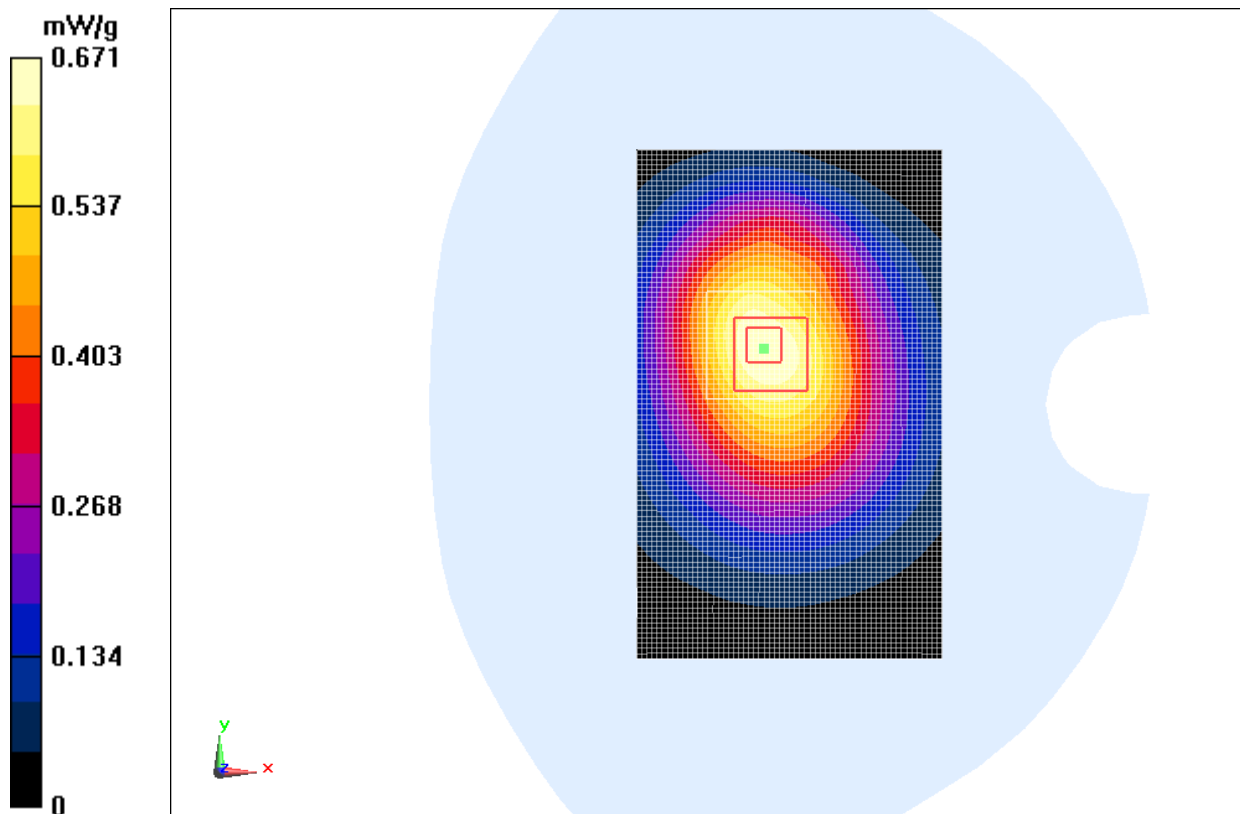


Fig. 22 850 MHz CH190

1900 Left Cheek High

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 41.786$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.954 mW/g

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

Reference Value = 6.083 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.261 mW/g

SAR(1 g) = 0.826 mW/g; SAR(10 g) = 0.474 mW/g

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

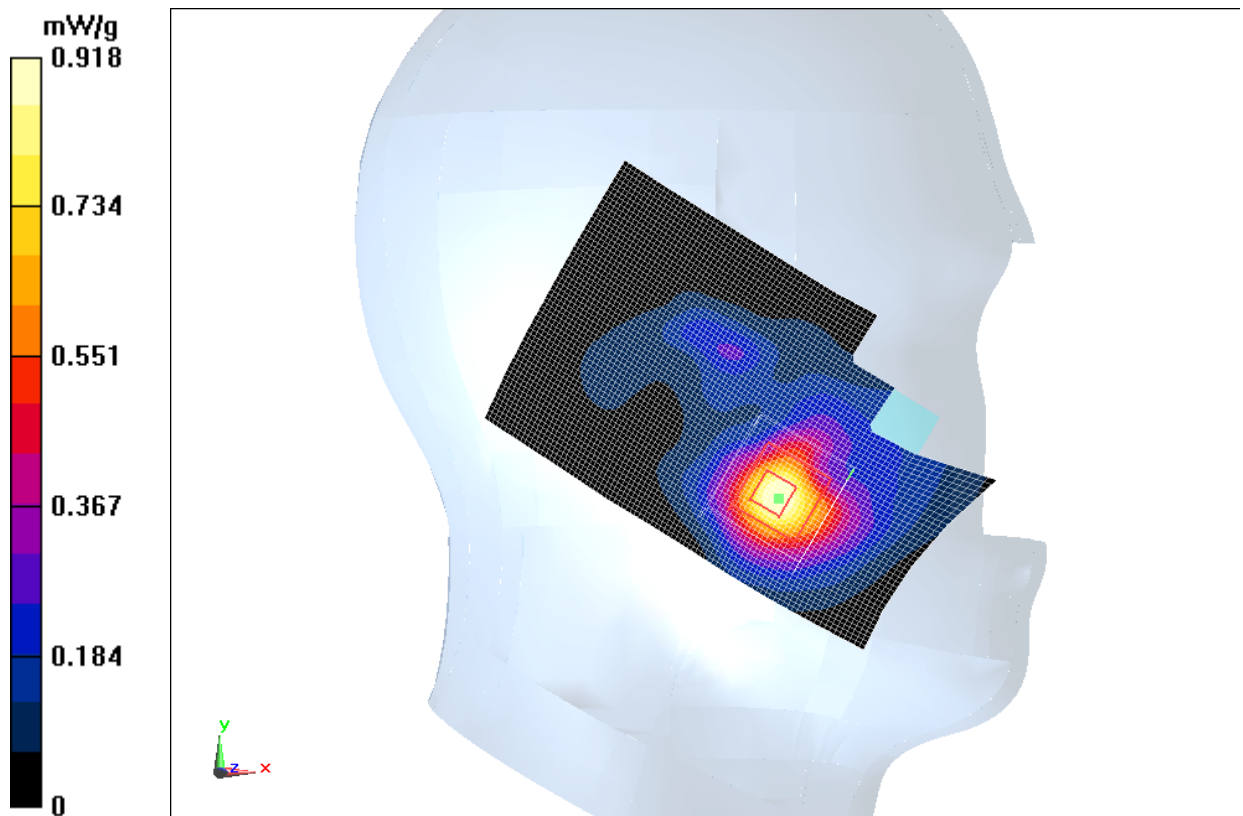


Fig. 23 1900 MHz CH810

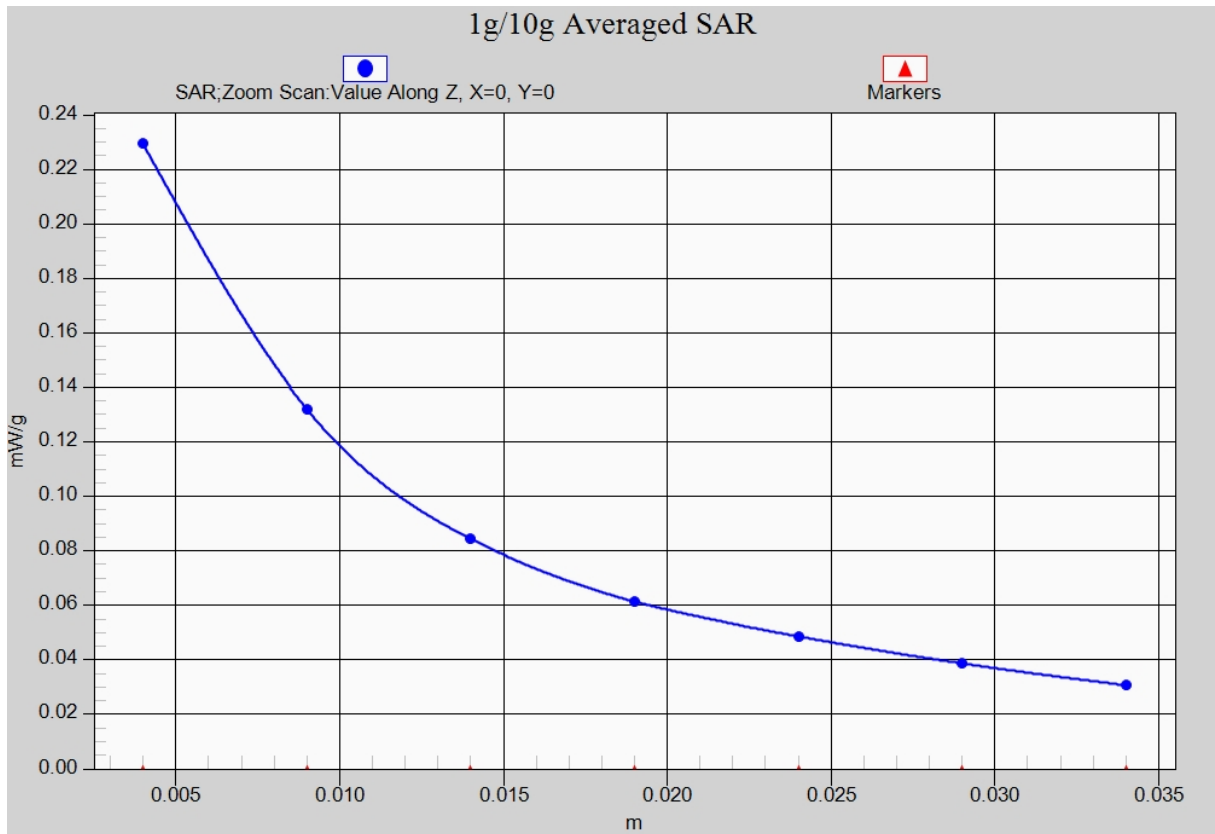


Fig. 23-1 Z-Scan at power reference point (1900 MHz CH810)

1900 Left Cheek Middle

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head GSM1900

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 41.898$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.834 mW/g

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

Reference Value = 5.300 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.070 mW/g

SAR(1 g) = 0.728 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.809 mW/g

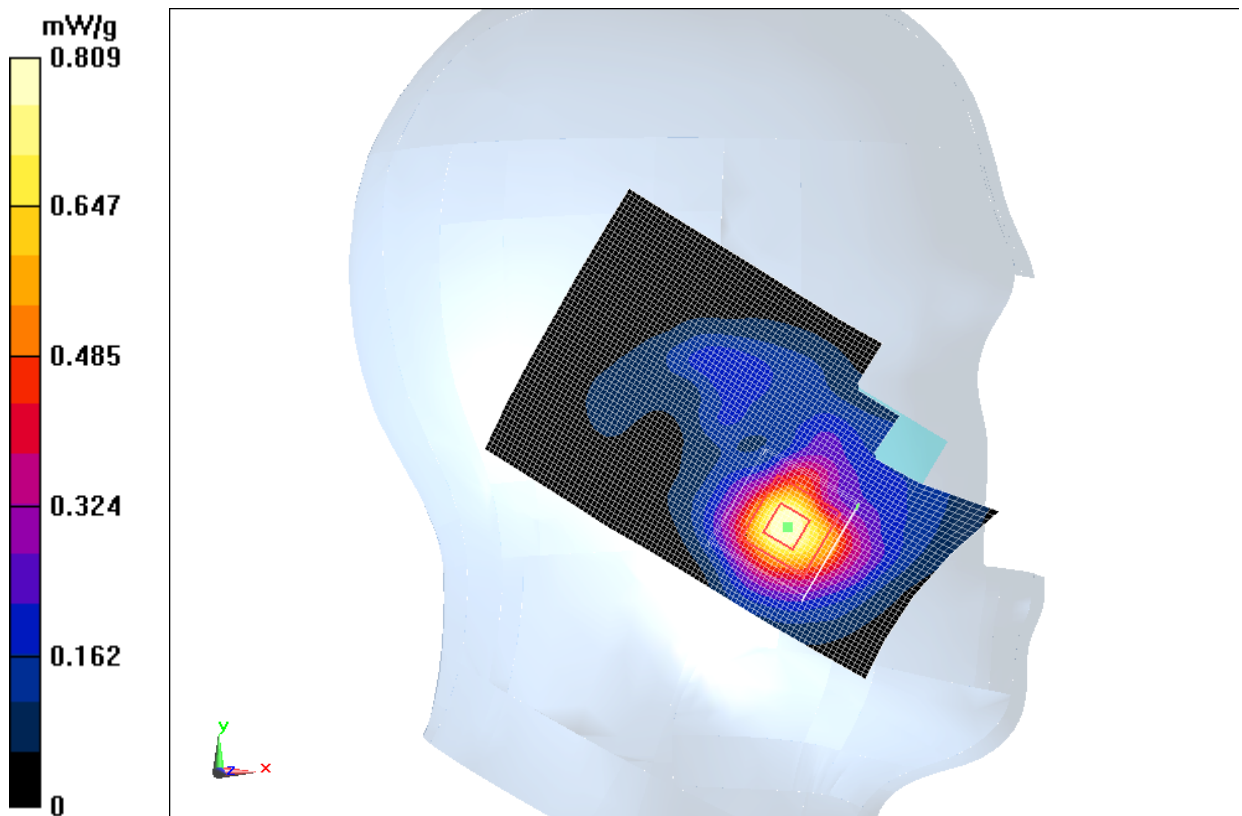


Fig. 24 1900 MHz CH661

1900 Left Cheek Low

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.347$ mho/m; $\epsilon_r = 41.991$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.737 mW/g

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

Reference Value = 5.549 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.987 mW/g

SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.388 mW/g

Maximum value of SAR (measured) = 0.741 mW/g

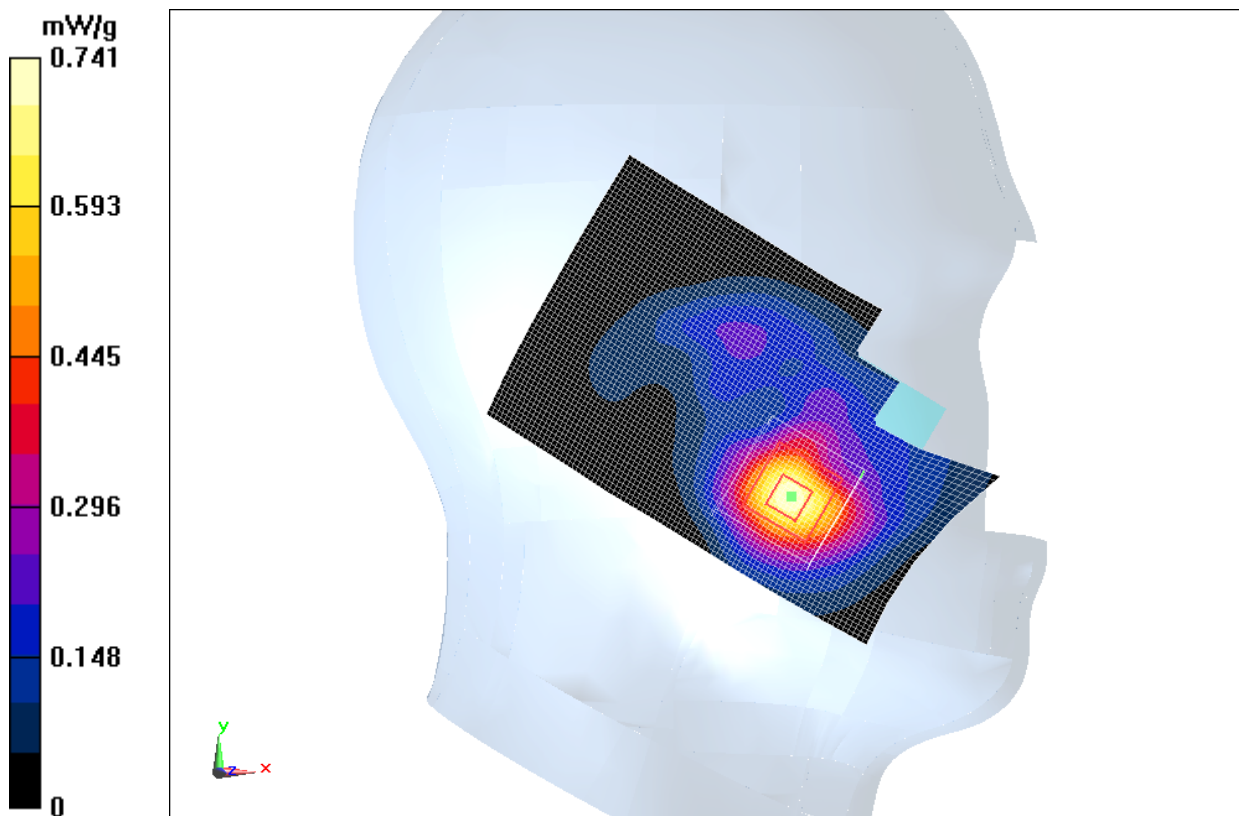


Fig. 25 1900 MHz CH512

1900 Left Tilt High

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 41.786$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Tilt High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.151 mW/g

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

Reference Value = 7.816 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.217 mW/g

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.147 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.816 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.212 mW/g

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.063 mW/g

Maximum value of SAR (measured) = 0.139 mW/g

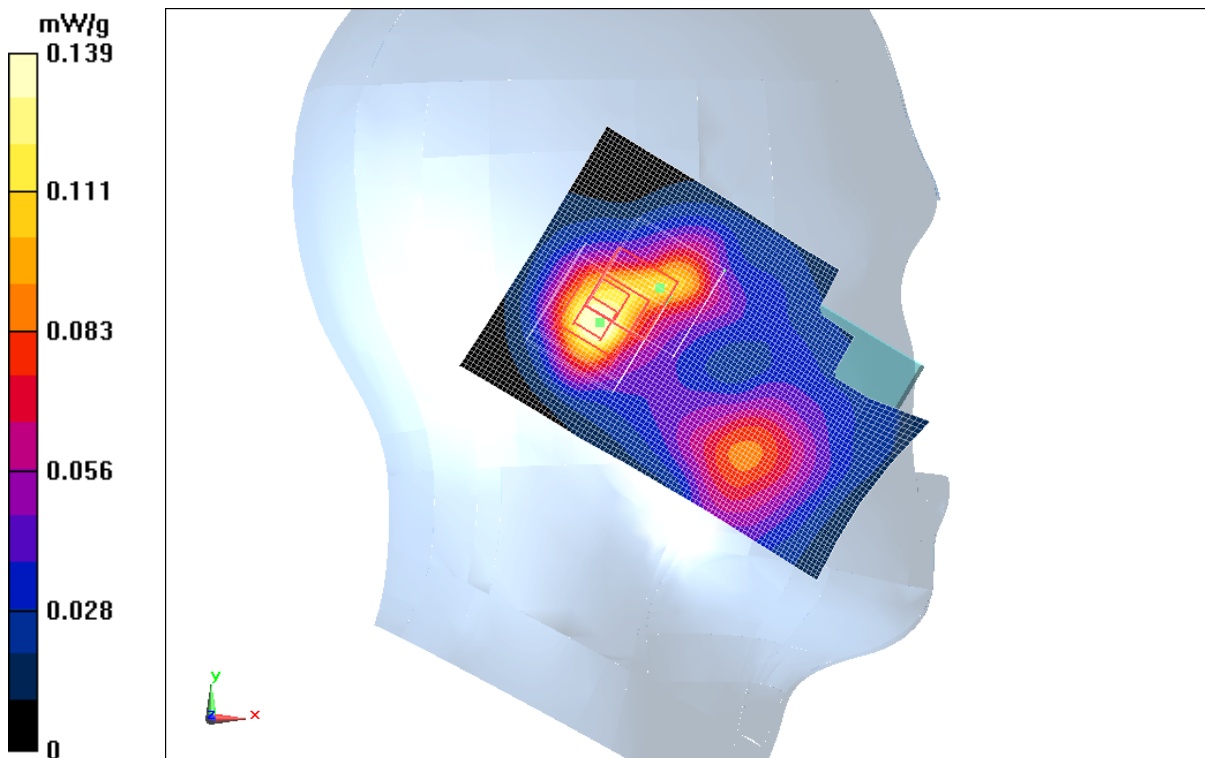


Fig. 26 1900 MHz CH810

1900 Left Tilt Middle

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 41.898$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Tilt Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.156 mW/g

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

Reference Value = 8.563 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.222 mW/g

SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.153 mW/g

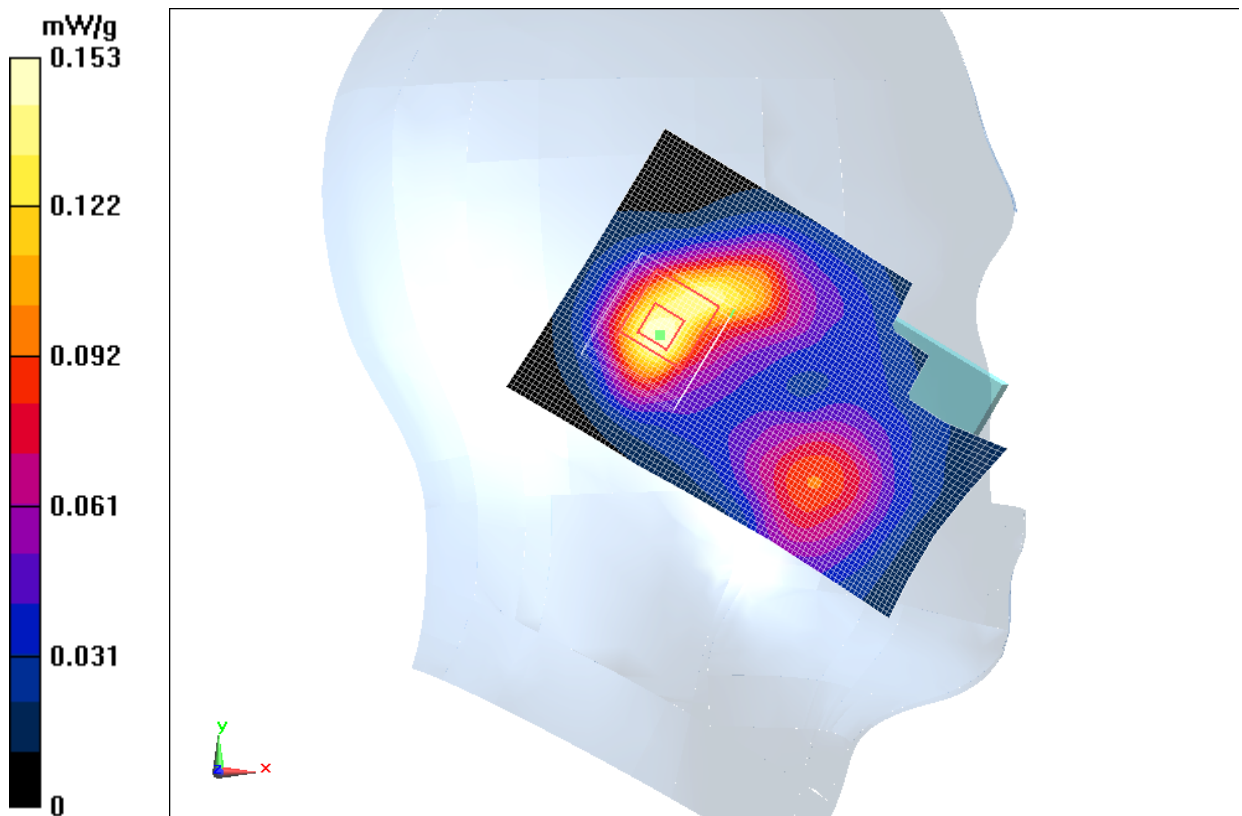


Fig. 27 1900 MHz CH661

1900 Left Tilt Low

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.347$ mho/m; $\epsilon_r = 41.991$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Tilt Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.157 mW/g

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

Reference Value = 9.064 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.218 mW/g

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.147 mW/g

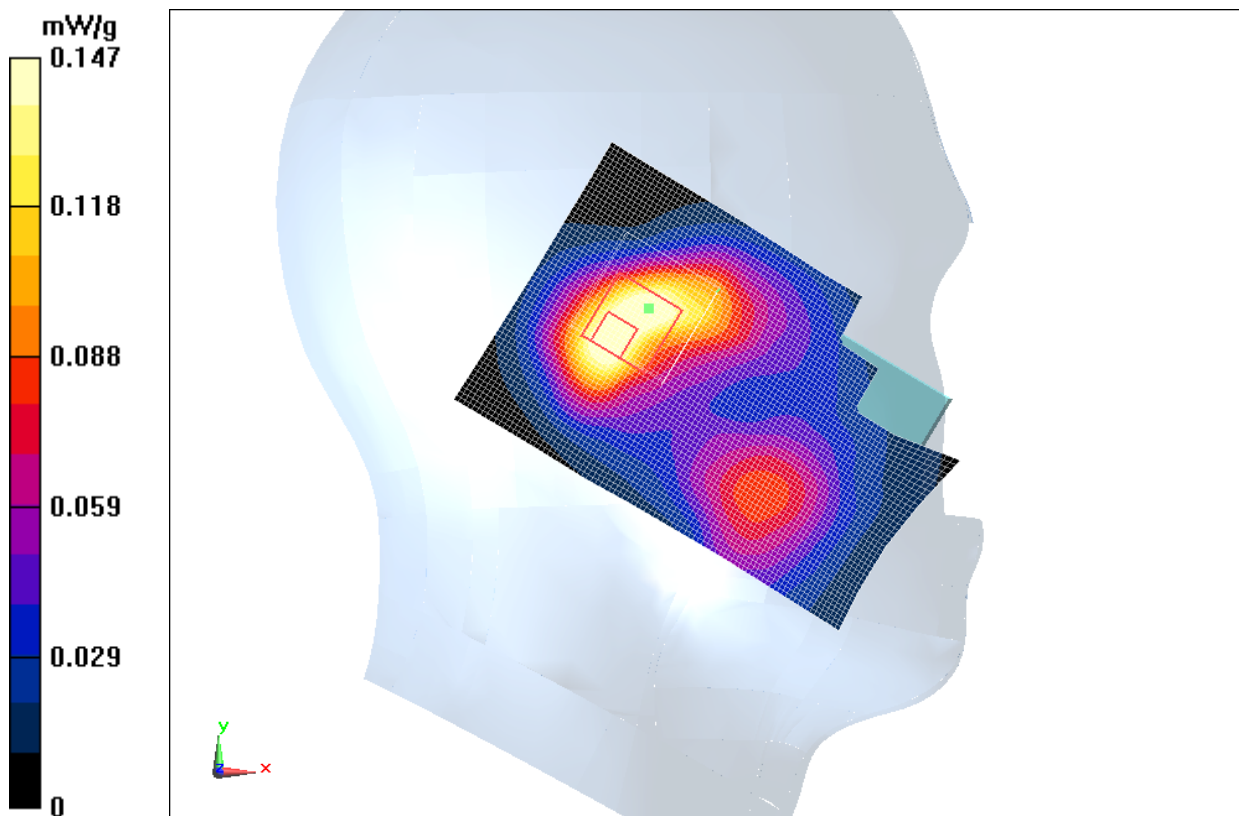


Fig. 28 1900 MHz CH512

1900 Right Cheek High

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 41.786$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.457 mW/g

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

Reference Value = 6.505 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.718 mW/g

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.282 mW/g

Maximum value of SAR (measured) = 0.497 mW/g

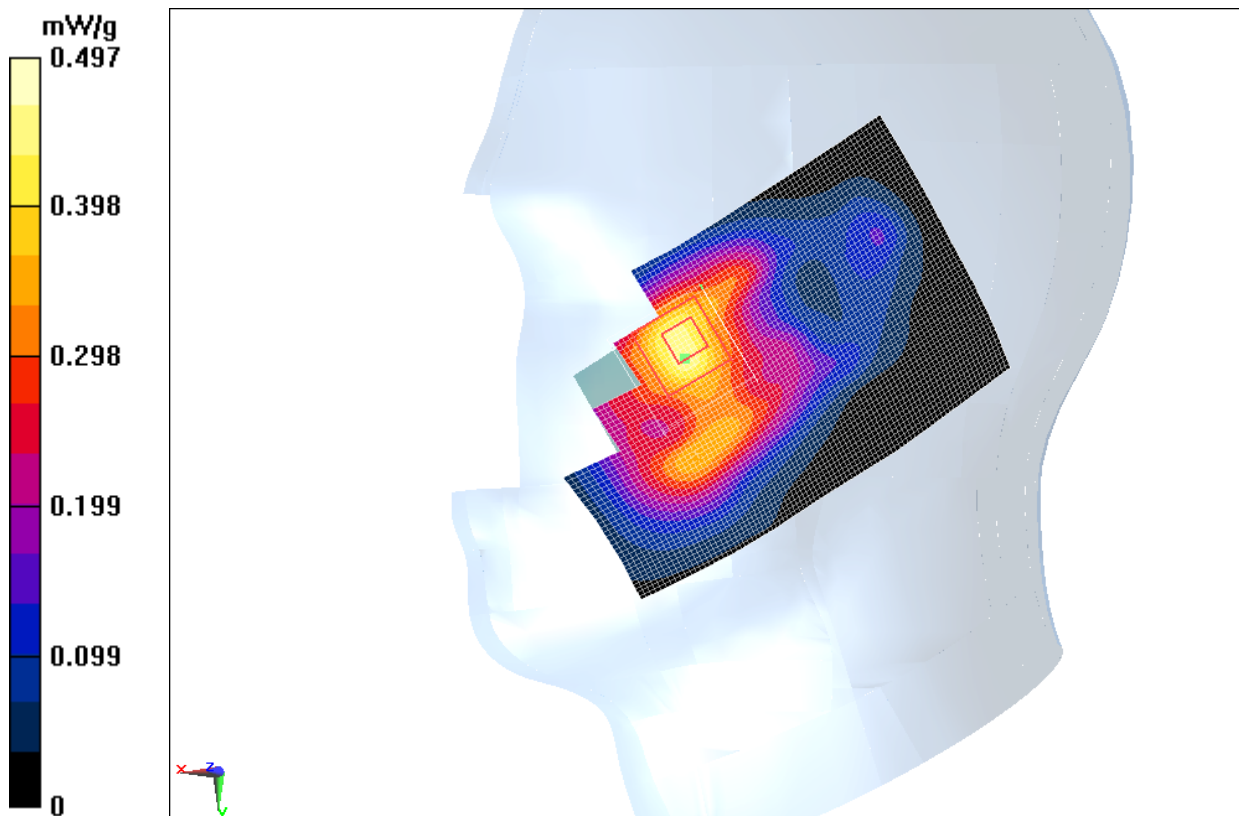


Fig. 29 1900 MHz CH810

1900 Right Cheek Middle

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 41.898$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.407 mW/g

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

Reference Value = 6.625 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.584 mW/g

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.237 mW/g

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

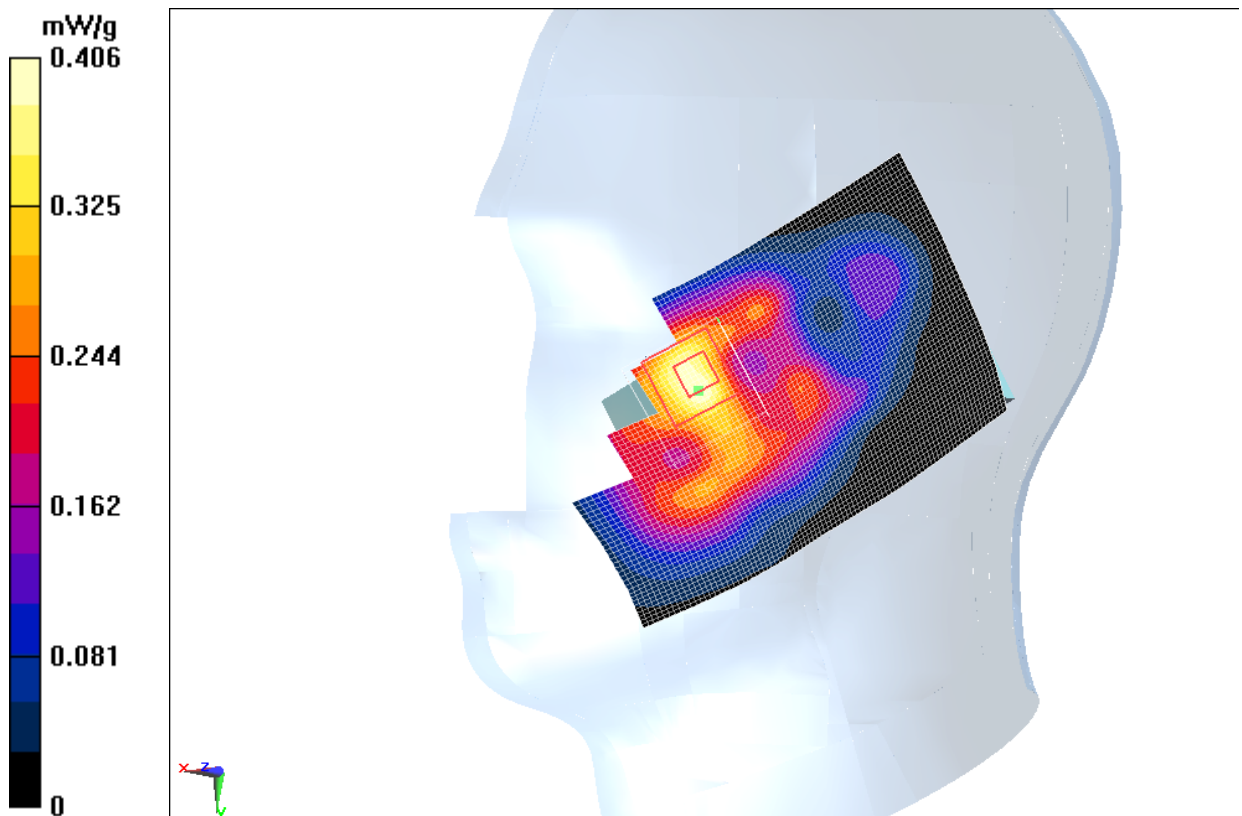


Fig. 30 1900 MHz CH661

1900 Right Cheek Low

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.347$ mho/m; $\epsilon_r = 41.991$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.384 mW/g

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

Reference Value = 7.667 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.533 mW/g

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.388 mW/g

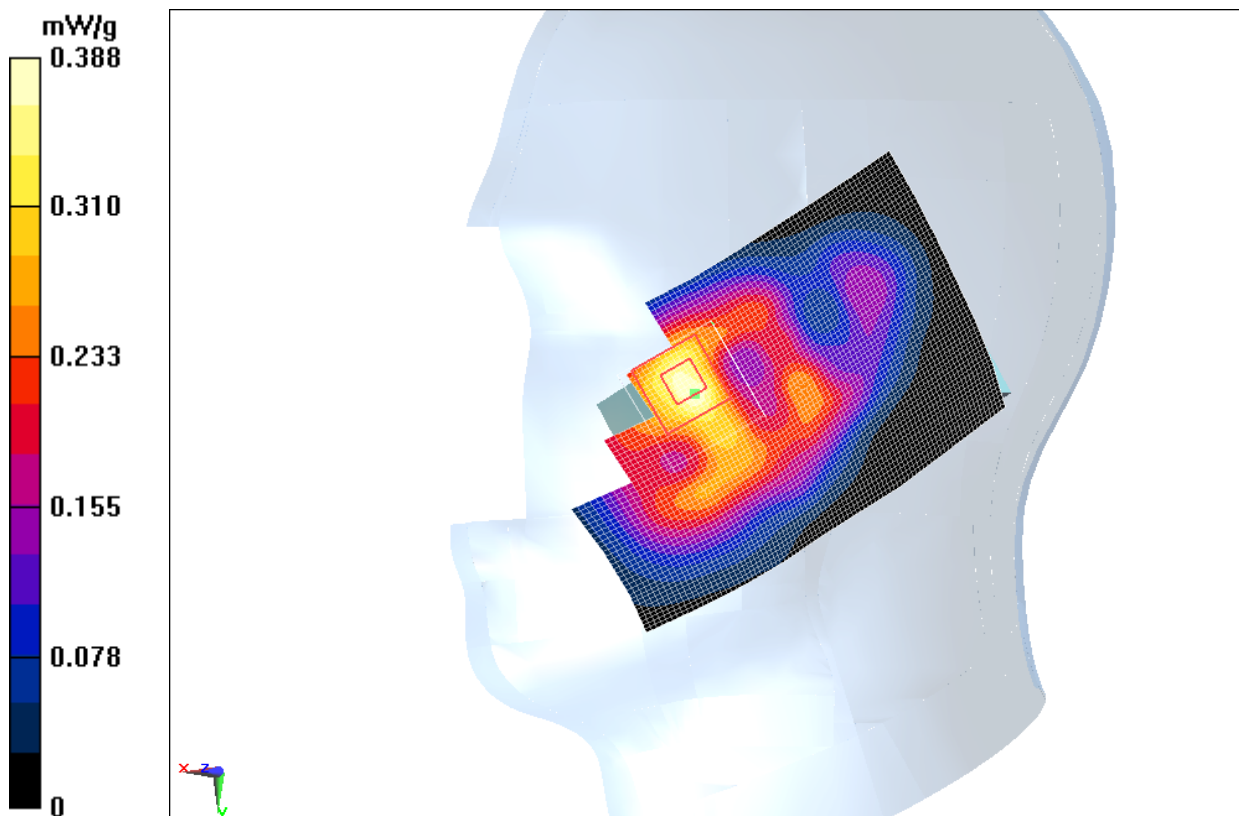


Fig. 31 1900 MHz CH512

1900 Right Tilt High

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 41.786$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Tilt High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.220 mW/g

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

Reference Value = 10.138 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.338 mW/g

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.216 mW/g

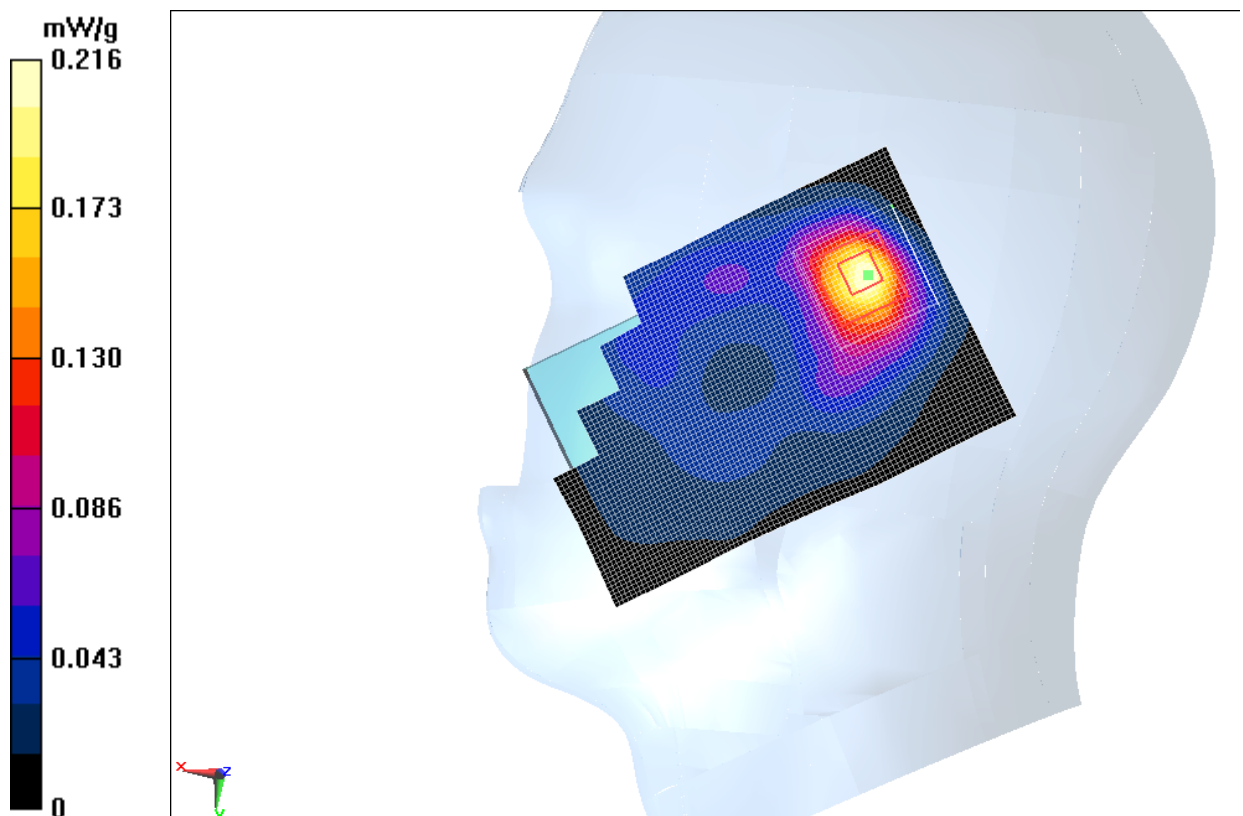


Fig. 32 1900 MHz CH810

1900 Right Tilt Middle

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.377$ mho/m; $\epsilon_r = 41.898$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Tilt Middle/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.217 mW/g

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

Reference Value = 10.552 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.332 mW/g

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.214 mW/g

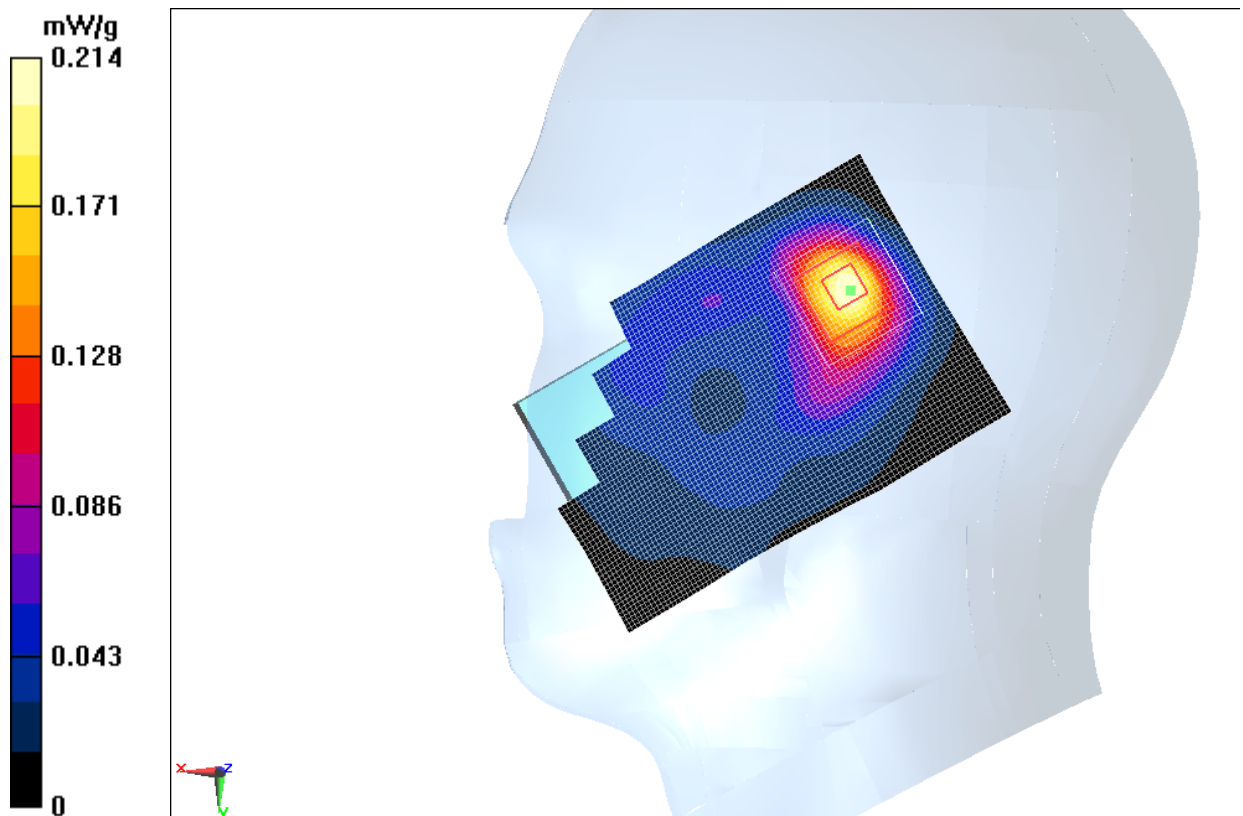


Fig.33 1900 MHz CH661

1900 Right Tilt Low

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.347$ mho/m; $\epsilon_r = 41.991$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Tilt Low/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.239 mW/g

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

Reference Value = 11.710 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.338 mW/g

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.232 mW/g

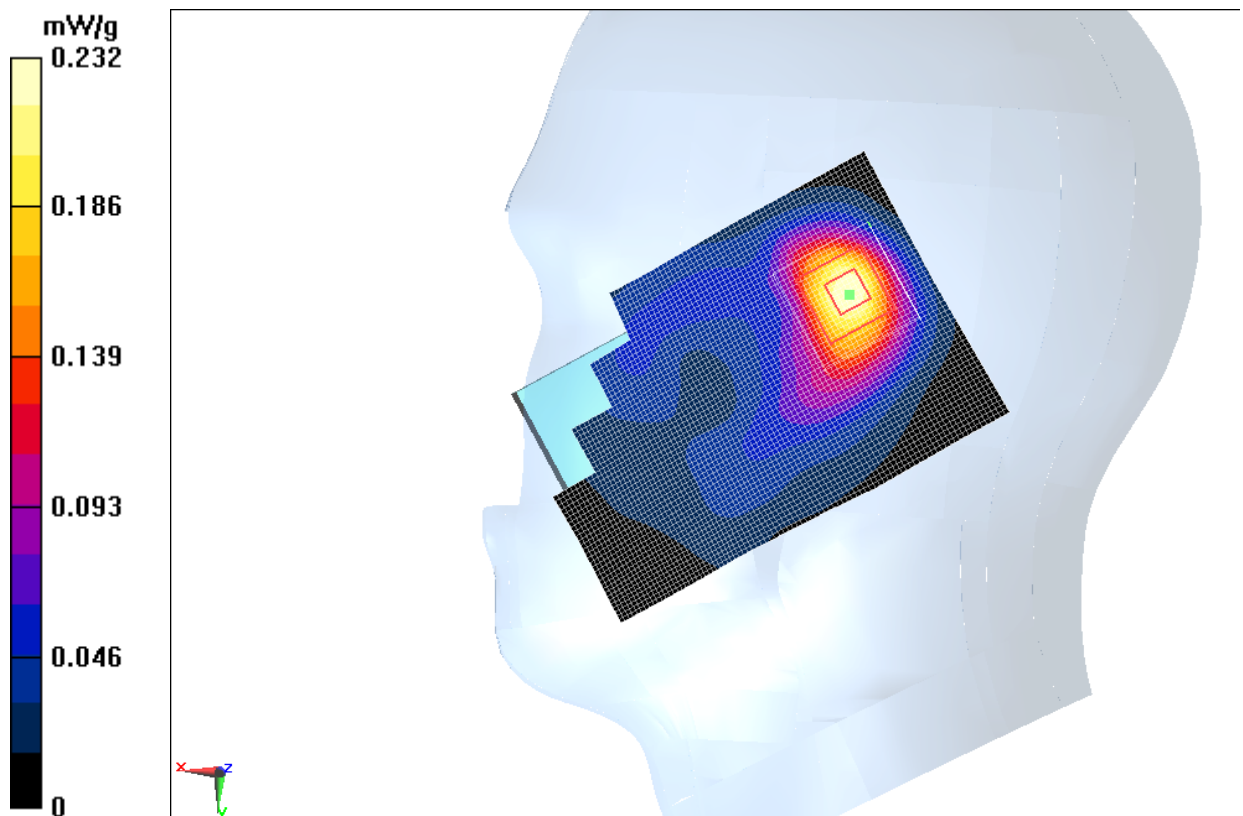


Fig. 34 1900 MHz CH512

1900 Left Cheek High with battery CAB31L0000C2

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.405$ mho/m; $\epsilon_r = 41.786$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

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

Probe: ES3DV3 - SN3149 ConvF(5.19, 5.19, 5.19)

Cheek High/Area Scan (61x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.790 mW/g

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

Reference Value = 7.486 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.123 mW/g

SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.390 mW/g

Maximum value of SAR (measured) = 0.781 mW/g

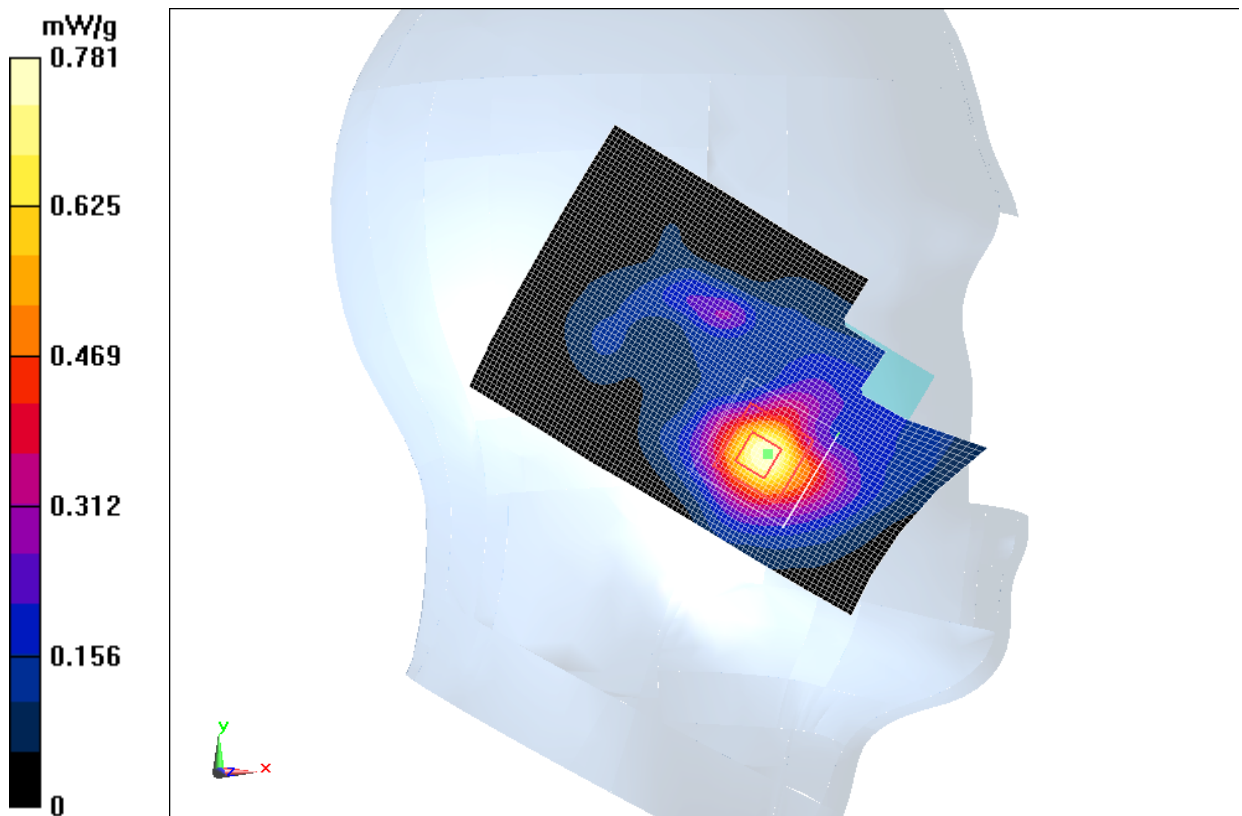


Fig. 35 1900 MHz CH810

1900 Body Toward Phantom High

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.141$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(4.64, 4.64, 4.64)

Toward Phantom High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.489 mW/g

Toward Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.250 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.666 mW/g

SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 0.481 mW/g

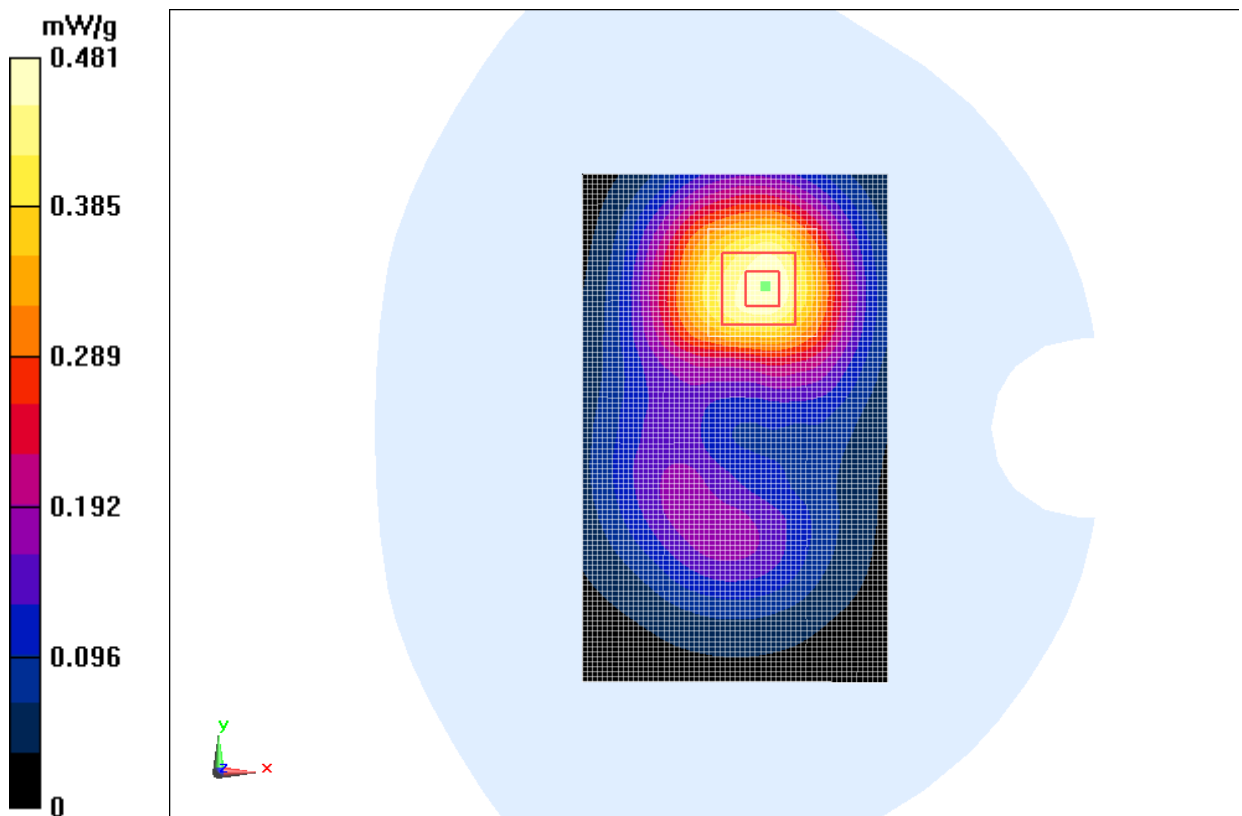


Fig. 36 1900 MHz CH810

1900 Body Toward Phantom Middle

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.263$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(4.64, 4.64, 4.64)

Toward Phantom Middle/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.362 mW/g

Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.726 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.498 mW/g

SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.359 mW/g

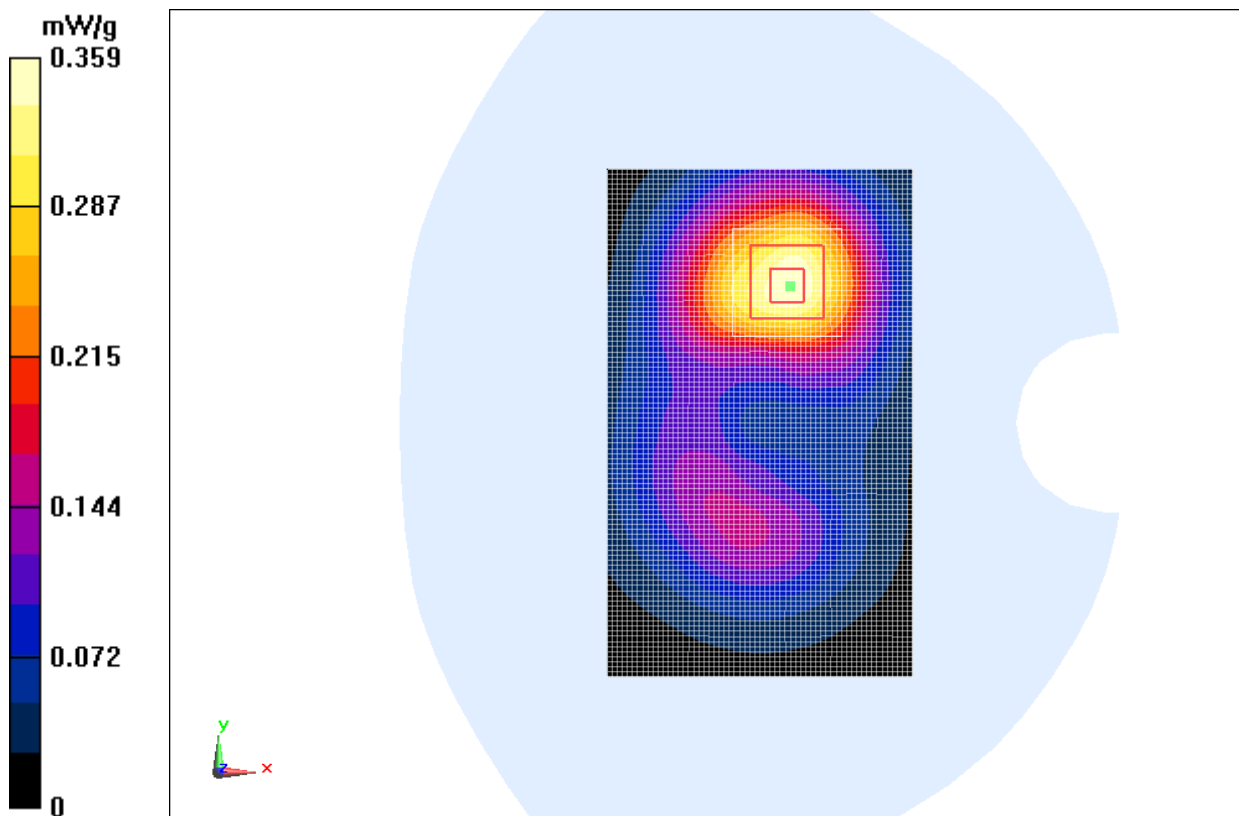


Fig. 37 1900 MHz CH661

1900 Body Toward Phantom Low

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.447$ mho/m; $\epsilon_r = 52.398$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(4.64, 4.64, 4.64)

Toward Phantom Low/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.254 mW/g

Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.181 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.351 mW/g

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.147 mW/g

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

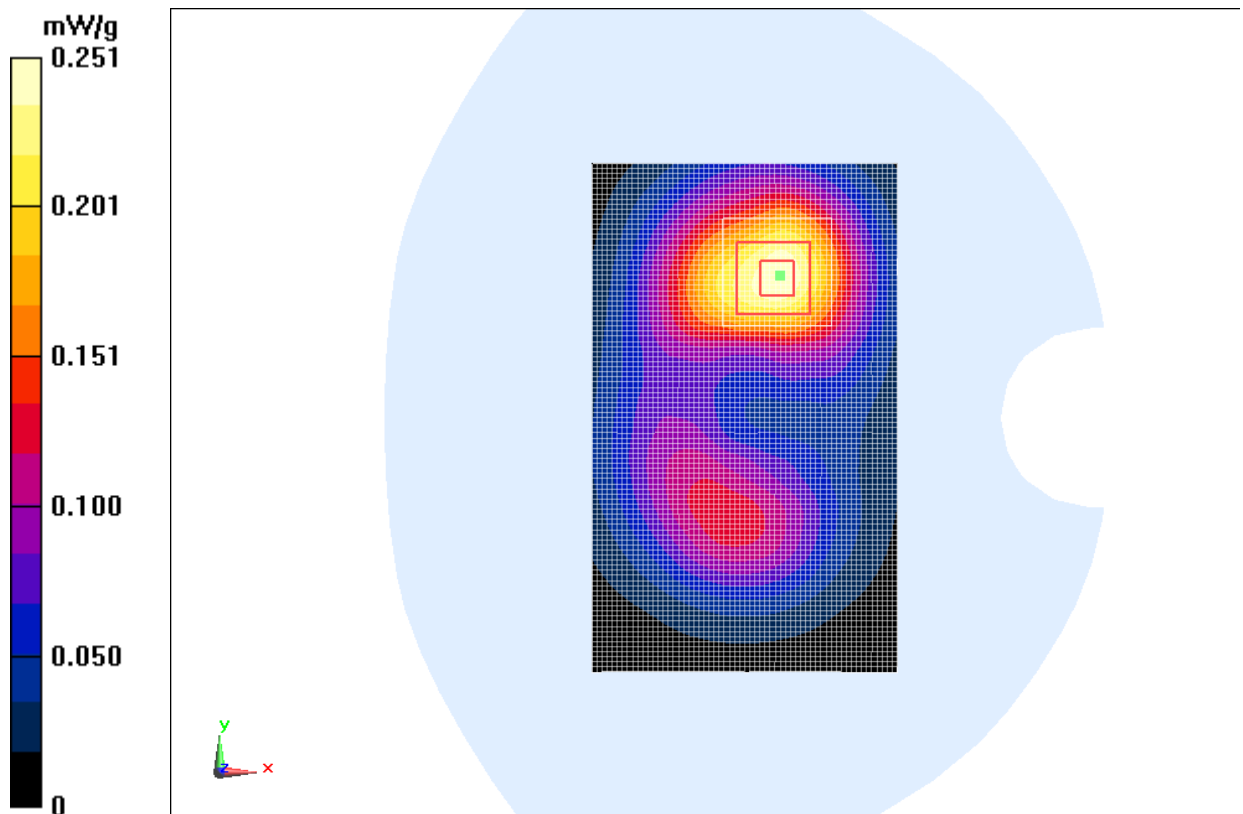


Fig. 38 1900 MHz CH512

1900 Body Toward Ground High

Date: 2012-7-19

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.141$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2

Probe: ES3DV3 - SN3149 ConvF(4.64, 4.64, 4.64)

Toward Ground High/Area Scan (61x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.552 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.764 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.756 mW/g

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.538 mW/g

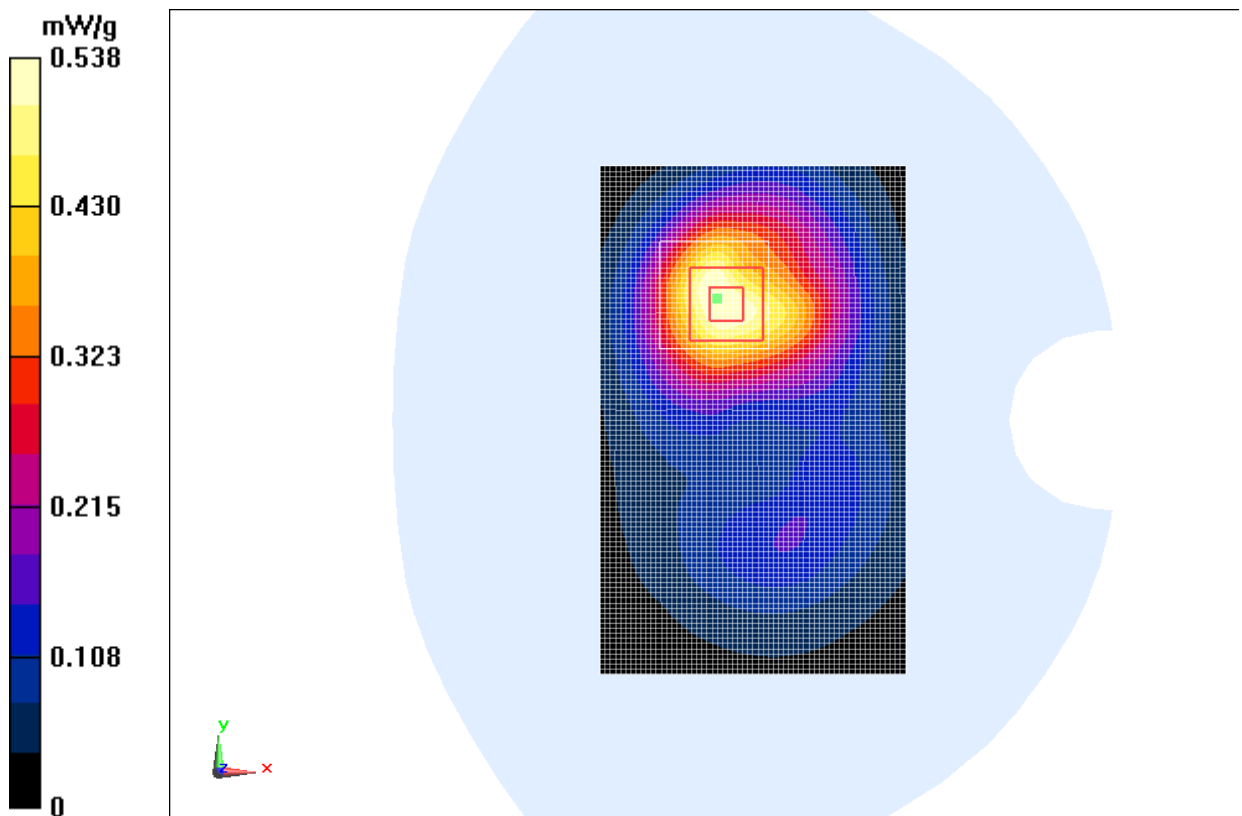


Fig. 39 1900 MHz CH810

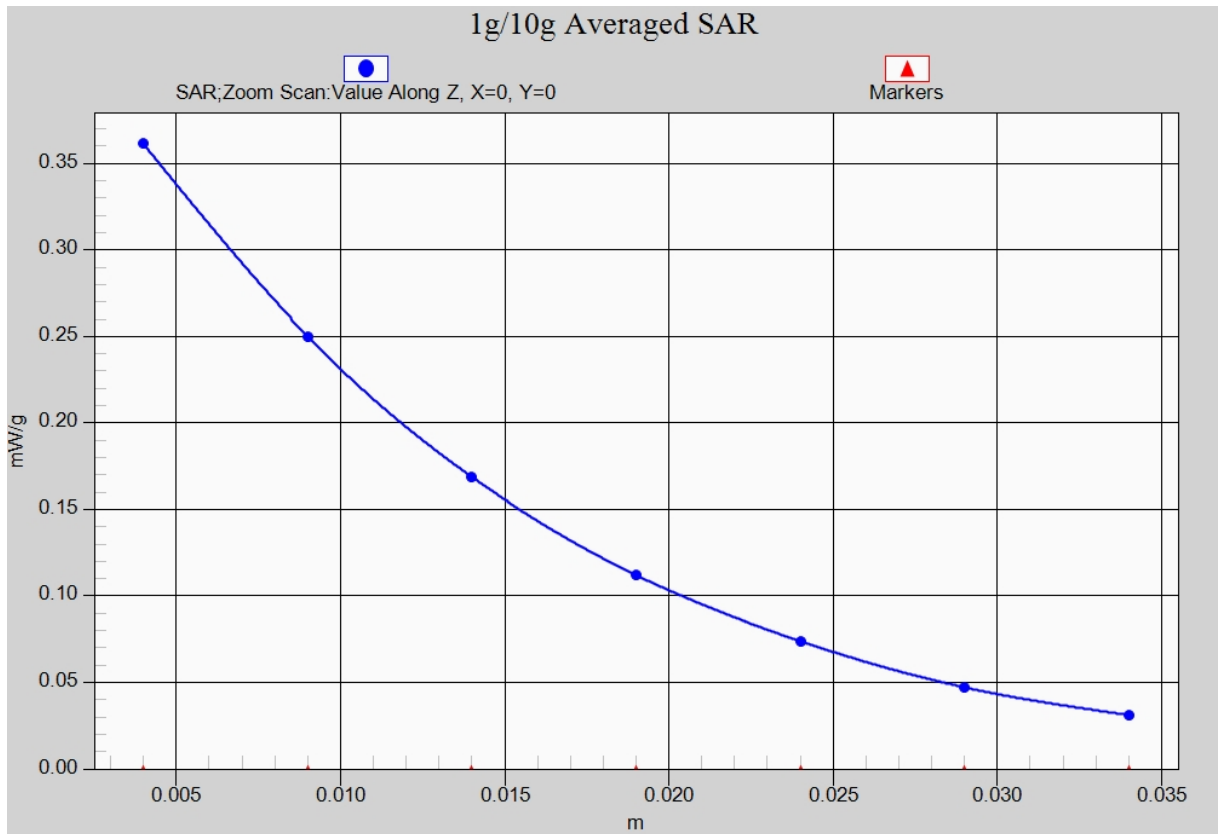


Fig. 39-1 Z-Scan at power reference point (1900 MHz CH810)