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E-mail: cttl@chinattl.com Http://www.chinattl.cn

Glossary:

| | |
|-------|--|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| N/A | not applicable or not measured |

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) For hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
- c) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|------------------------------|--------------------------|-------------|
| DASY Version | DASY52 | 52.8.8.1222 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 2450 MHz \pm 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------------|----------------|----------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.2 | 1.80 mho/m |
| Measured Head TSL parameters | (22.0 \pm 0.2) °C | 40.1 \pm 6 % | 1.84 mho/m \pm 6 % |
| Head TSL temperature change during test | <1.0 °C | ---- | ---- |

SAR result with Head TSL

| | | |
|---|--------------------|--------------------------------|
| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 13.5 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 53.7 mW / g \pm 20.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 6.34 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 25.3 mW / g \pm 20.4 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------------|----------------|----------------------|
| Nominal Body TSL parameters | 22.0 °C | 52.7 | 1.95 mho/m |
| Measured Body TSL parameters | (22.0 \pm 0.2) °C | 51.4 \pm 6 % | 1.99 mho/m \pm 6 % |
| Body TSL temperature change during test | <1.0 °C | ---- | ---- |

SAR result with Head TSL

| | | |
|---|--------------------|--------------------------------|
| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 13.2 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 52.0 mW / g \pm 20.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Body TSL | Condition | |
| SAR measured | 250 mW input power | 6.19 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 24.5 mW / g \pm 20.4 % (k=2) |



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Appendix

Antenna Parameters with Head TSL

| | |
|--------------------------------------|----------------------------|
| Impedance, transformed to feed point | $50.7\Omega + 5.02j\Omega$ |
| Return Loss | - 26.0dB |

Antenna Parameters with Body TSL

| | |
|--------------------------------------|----------------------------|
| Impedance, transformed to feed point | $48.7\Omega + 5.68j\Omega$ |
| Return Loss | - 24.6dB |

General Antenna Parameters and Design

| | |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.043 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| | |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|



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DASY5 Validation Report for Head TSL

Date: 03.11.2014

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 873

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.842 \text{ S/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.19, 7.19, 7.19); Calibrated: 2014-08-28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2014-01-23
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

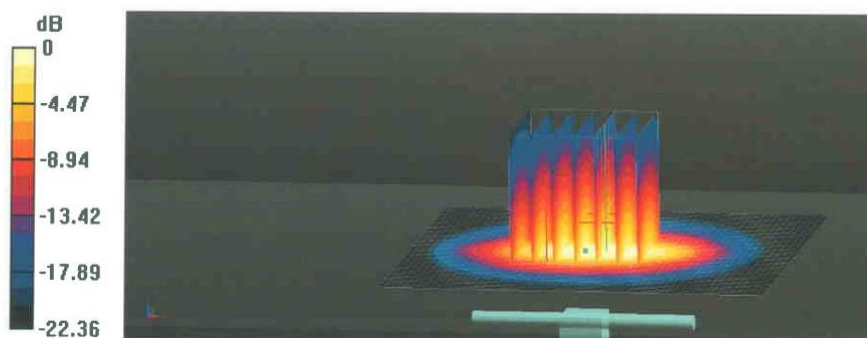
dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.3 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.34 W/kg

Maximum value of SAR (measured) = 20.3 W/kg

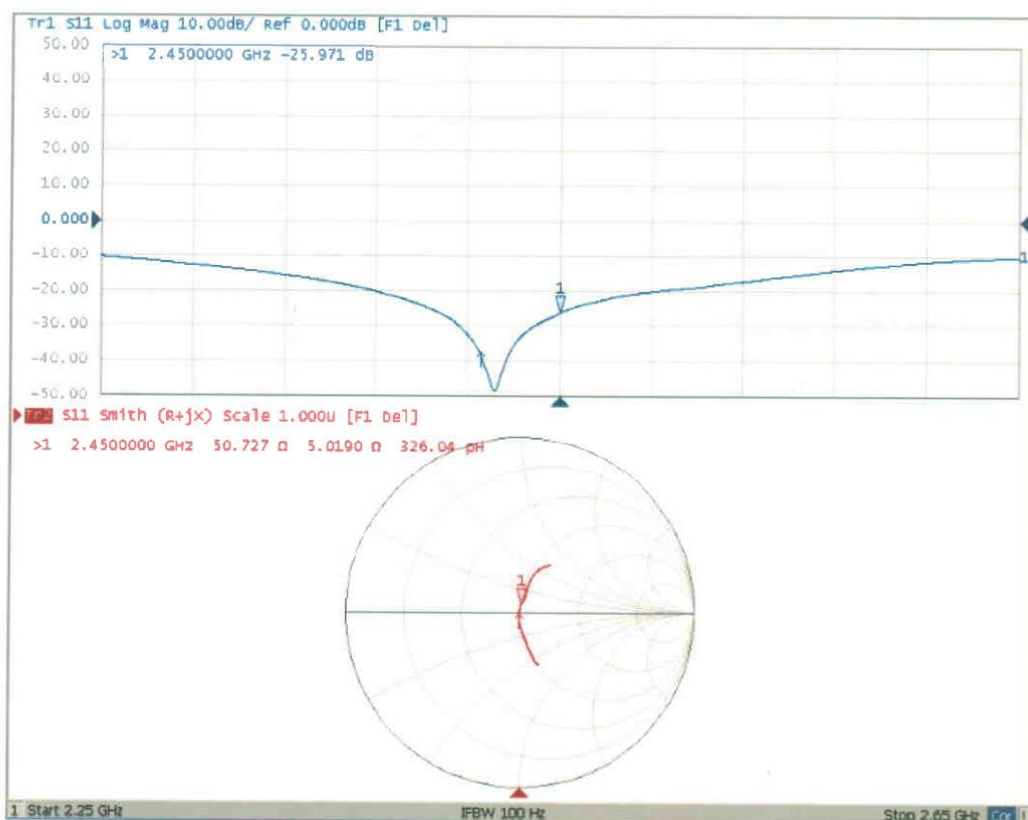


0 dB = 20.3 W/kg = 13.07 dBW/kg



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Impedance Measurement Plot for Head TSL





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DASY5 Validation Report for Body TSL

Date: 02.11.2014

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 873

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.991$ S/m; $\epsilon_r = 51.37$; $\rho = 1000$ kg/m³

Phantom section: Center Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.31, 7.31, 7.31); Calibrated: 2014-08-28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2014-01-23
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

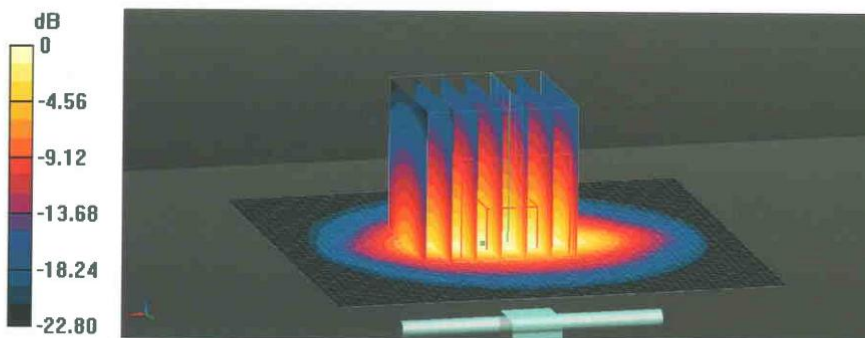
dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.19 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

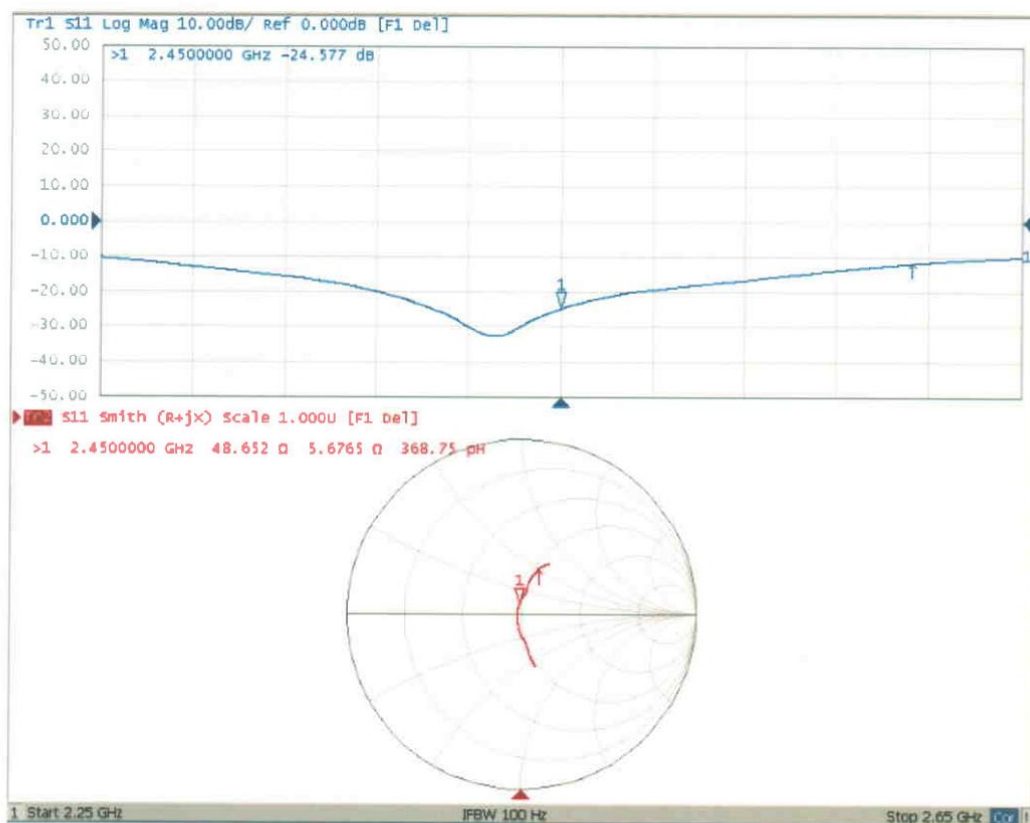


In Collaboration with

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Impedance Measurement Plot for Body TSL



ANNEX I SPOT CHECK TEST

As the test lab for 4009E from TCL Communication Ltd., we, CTTL Shenzhen, declare on our sole responsibility that, according to “Declaration of changes” provided by applicant, only the Spot check test should be performed. The test results are as below.

I.1 Internal Identification of EUT used during the spot check test

| EUT ID* | IMEI | HW Version | SW Version |
|---------|--|------------|------------|
| EUT1 | IMEI 1: 356870060100027 IMEI 2: 356870060100266 | PIO | v4B2A |

*EUT ID: is used to identify the test sample in the lab internally.

I.2 Conducted power of selected case

Table I.1: The conducted power results for GSM850/1900

| GSM 850MHz | Conducted Power (dBm) | | |
|----------------|------------------------|-----------------------|------------------------|
| | Channel 251(848.8MHz) | Channel 190(836.6MHz) | Channel 128(824.2MHz) |
| | 32.65 | / | / |
| GSM 1900MHz | Conducted Power (dBm) | | |
| | Channel 810(1909.8MHz) | Channel 661(1880MHz) | Channel 512(1850.2MHz) |
| | 29.72 | / | / |

Table I.2: The conducted power results for GPRS

| GSM 850 GPRS (GMSK) | Measured Power (dBm) | | |
|------------------------|----------------------|-----|-----|
| | 251 | 190 | 128 |
| 4 Txslots | 26.62 | / | / |
| PCS1900 GPRS (GMSK) | Measured Power (dBm) | | |
| | 810 | 661 | 512 |
| 4 Txslots | 24.28 | / | / |

Table I.3: The conducted power results for WCDMA

| Item | band | FDD V result | | |
|--------------|-------|------------------|-----------------|------------------|
| | ARFCN | 4233 (846.6MHz) | 4182 (836.4MHz) | 4132 (826.4MHz) |
| WCDMA | / | 22.94 | / | / |
| Item | band | FDD II result | | |
| | ARFCN | 9538 (1907.6MHz) | 9400 (1880MHz) | 9262 (1852.4MHz) |
| WCDMA | / | 23.36 | / | / |

I.3 Measurement results

SAR Values (GSM 850 MHz Band - Head)

| Frequency | | Side | Test Position | Battery Type | SAR(1g) (W/kg) | |
|-----------|-----|------|---------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | Original data | Spot check data |
| 848.8 | 251 | Left | Touch | CAB31P0000C1 | 0.793 | 0.551 |

SAR Values (GSM 850 MHz Band - Body)

| Frequency | | Mode/Band | Test Position | Spacing (mm) | Battery Type | SAR(1g) (W/kg) | |
|-----------|-----|-----------|---------------|--------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | | Original data | Spot check data |
| 848.8 | 251 | GPRS | Rear | 10 | CAB31P0000C1 | 0.924 | 0.684 |

SAR Values (PCS 1900 MHz Band - Head)

| Frequency | | Side | Test Position | Battery Type | SAR(1g) (W/kg) | |
|-----------|-----|-------|---------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | Original data | Spot check data |
| 1909.8 | 810 | Right | Touch | CAB31P0000C1 | 0.543 | 0.438 |

SAR Values (PCS 1900 MHz Band - Body)

| Frequency | | Mode/Band | Test Position | Spacing (mm) | Battery Type | SAR(1g) (W/kg) | |
|-----------|-----|-----------|---------------|--------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | | Original data | Spot check data |
| 1909.8 | 810 | GPRS | Rear | 10 | CAB31P0000C1 | 0.572 | 0.532 |

SAR Values (WCDMA 850 MHz Band - Head)

| Frequency | | Side | Test Position | Battery Type | SAR(1g) (W/kg) | |
|-----------|------|------|---------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | Original data | Spot check data |
| 846.6 | 4233 | Left | Touch | CAB31P0000C1 | 0.720 | 0.605 |

SAR Values (WCDMA 850 MHz Band - Body)

| Frequency | | Test Position | Spacing (mm) | Battery Type | SAR(1g) (W/kg) | |
|-----------|------|---------------|--------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | Original data | Spot check data |
| 846.6 | 4233 | Rear | 10 | CAB31P0000C1 | 0.967 | 0.872 |

SAR Values (WCDMA 1900 MHz Band - Head)

| Frequency | | Side | Test Position | Battery Type | SAR(1g) (W/kg) | |
|-----------|------|-------|---------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | Original data | Spot check data |
| 1907.6 | 9538 | Right | Touch | CAB31P0000C1 | 0.864 | 0.826 |

SAR Values (WCDMA 1900 MHz Band - Body)

| Frequency | | Test Position | Spacing (mm) | Battery Type | SAR(1g) (W/kg) | |
|-----------|------|---------------|--------------|--------------|----------------|-----------------|
| MHz | Ch. | | | | Original data | Spot check data |
| 1907.6 | 9538 | Rear | 10 | CAB31P0000C1 | 1.100 | 0.935 |

I.4 Reported SAR Comparison

| Exposure Configuration | Technology Band | Reported SAR 1g (W/Kg): original | Reported SAR 1g (W/Kg): spot check |
|--|-----------------|--|--|
| Head (Separation Distance 0mm) | GSM 850 | 0.90 | 0.64 |
| | PCS 1900 | 0.62 | 0.50 |
| | UMTS FDD 2 | 0.83 | 0.77 |
| | UMTS FDD 5 | 0.99 | 0.96 |
| Body-worn (Separation Distance 10mm) | GSM 850 | 1.09 | 0.84 |
| | PCS 1900 | 0.67 | 0.63 |
| | UMTS FDD 2 | 1.11 | 1.11 |
| | UMTS FDD 5 | 1.27 | 1.08 |

GSM 850 Left Cheek High

Date: 2014-12-13

Electronics: DAE4 Sn786

Medium: Head 900 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.723$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.7°C Liquid Temperature: 21.2°C

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

Probe: ES3DV3 - SN3151 ConvF(6.04, 6.04, 6.04);

Left Cheek High/Area Scan (51x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.581 W/kg

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

Reference Value = 8.342 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.701 W/kg

SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.406 W/kg

Maximum value of SAR (measured) = 0.581 W/kg

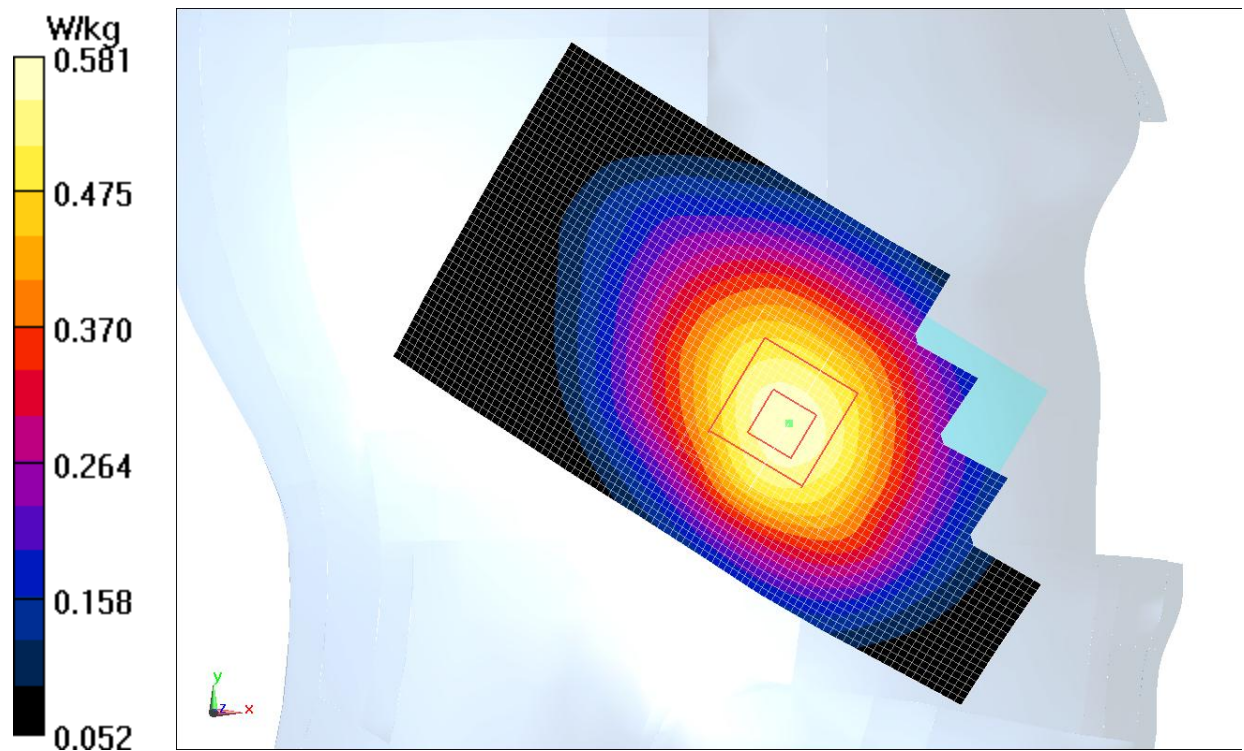
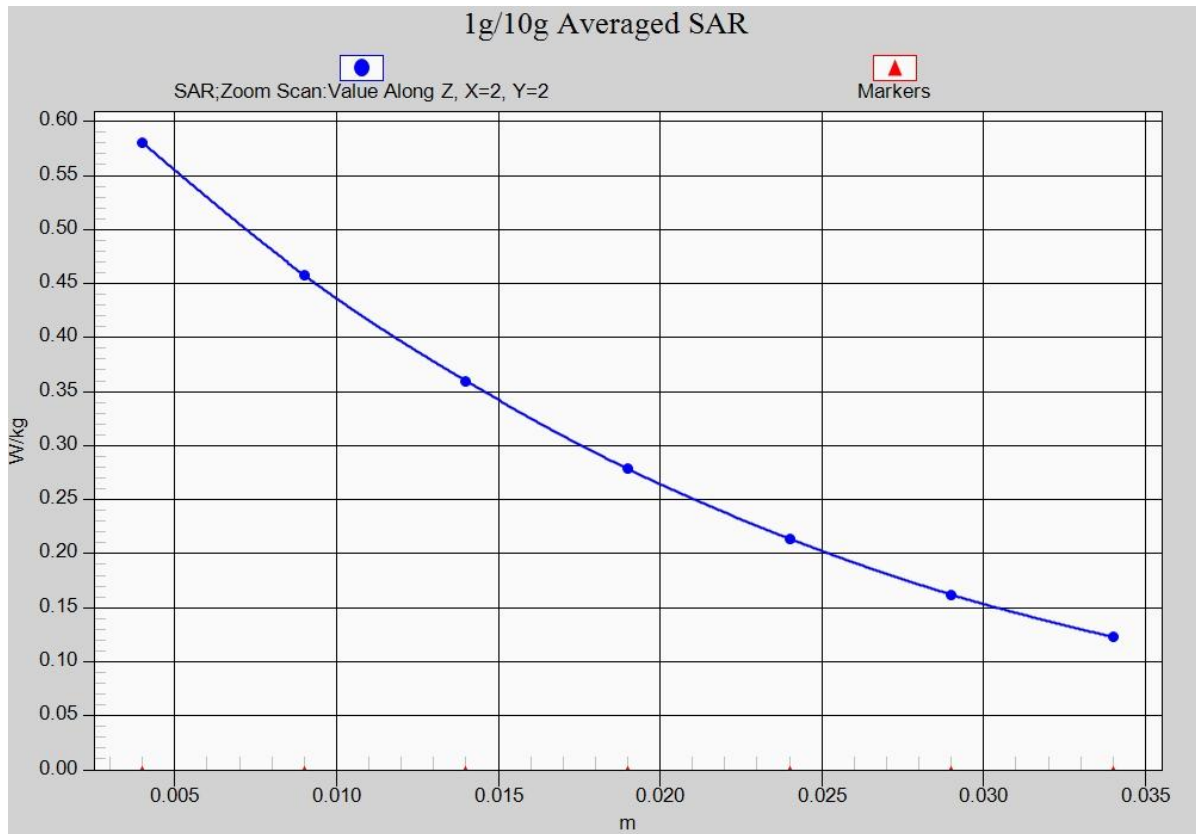


Fig. E.1 Left Hand Touch Cheek GSM 850MHz CH251



Z-Scan at power reference point (850 MHz CH251)

GSM 850 Rear side High

Date: 2014-12-13

Electronics: DAE4 Sn786

Medium: Body 900 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.977$ S/m; $\epsilon_r = 55.686$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.7°C Liquid Temperature: 21.2°C

Communication System: 4 slot GPRS Frequency: 848.8 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(6.14, 6.14, 6.14);

Rear side High/Area Scan (51x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.749 W/kg

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

Reference Value = 20.085 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.452 W/kg

Maximum value of SAR (measured) = 0.739 W/kg

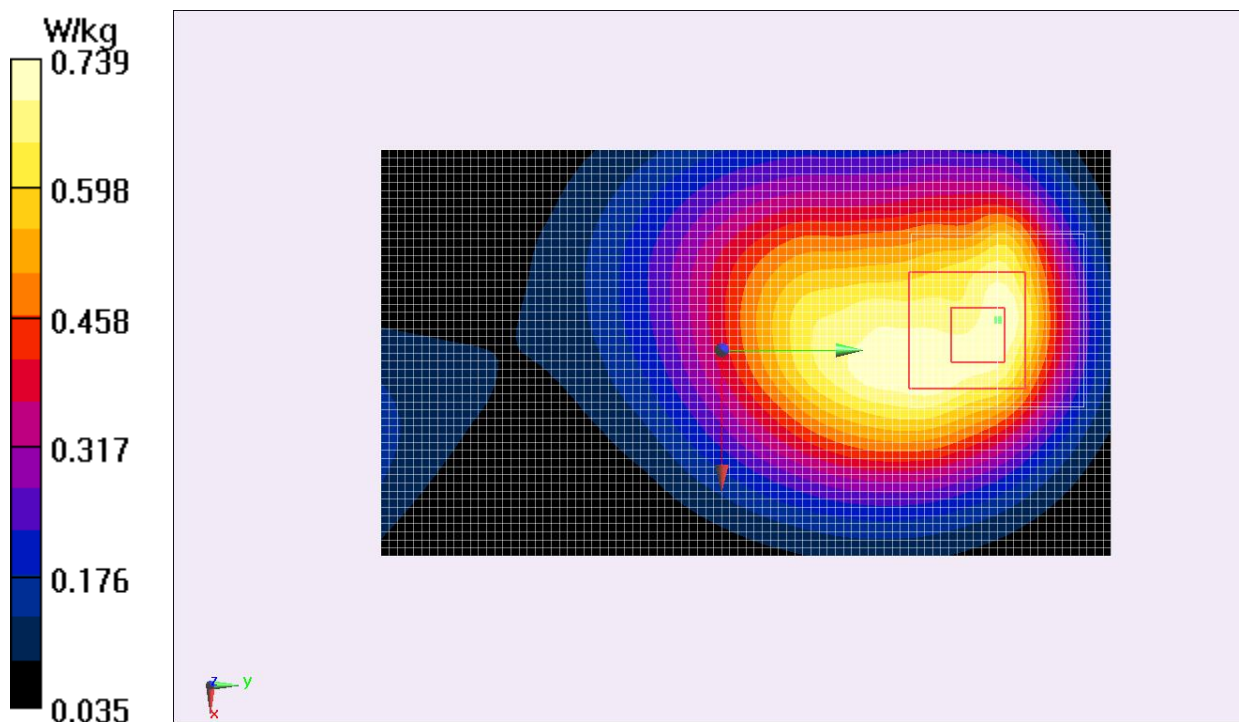
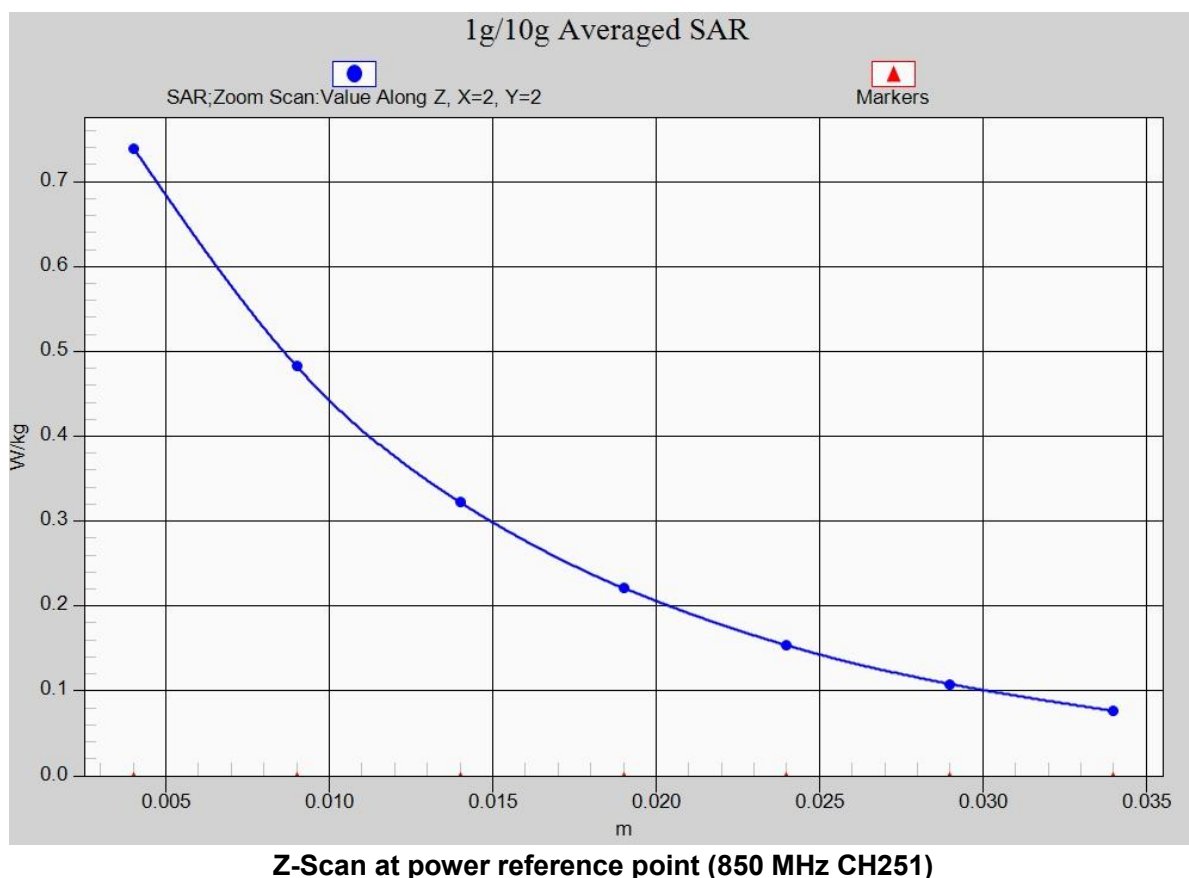


Fig. E.1 GSM 850 MHz CH251



PCS1900 head Right Cheek High

Date: 2014-12-14

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.454$ S/m; $\epsilon_r = 41.028$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.7°C Liquid Temperature: 21.2°C

Communication System: GSM Frequency: 1910 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3151 ConvF(5.16, 5.16, 5.16);

Right Cheek High/Area Scan (51x101x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.443 W/kg

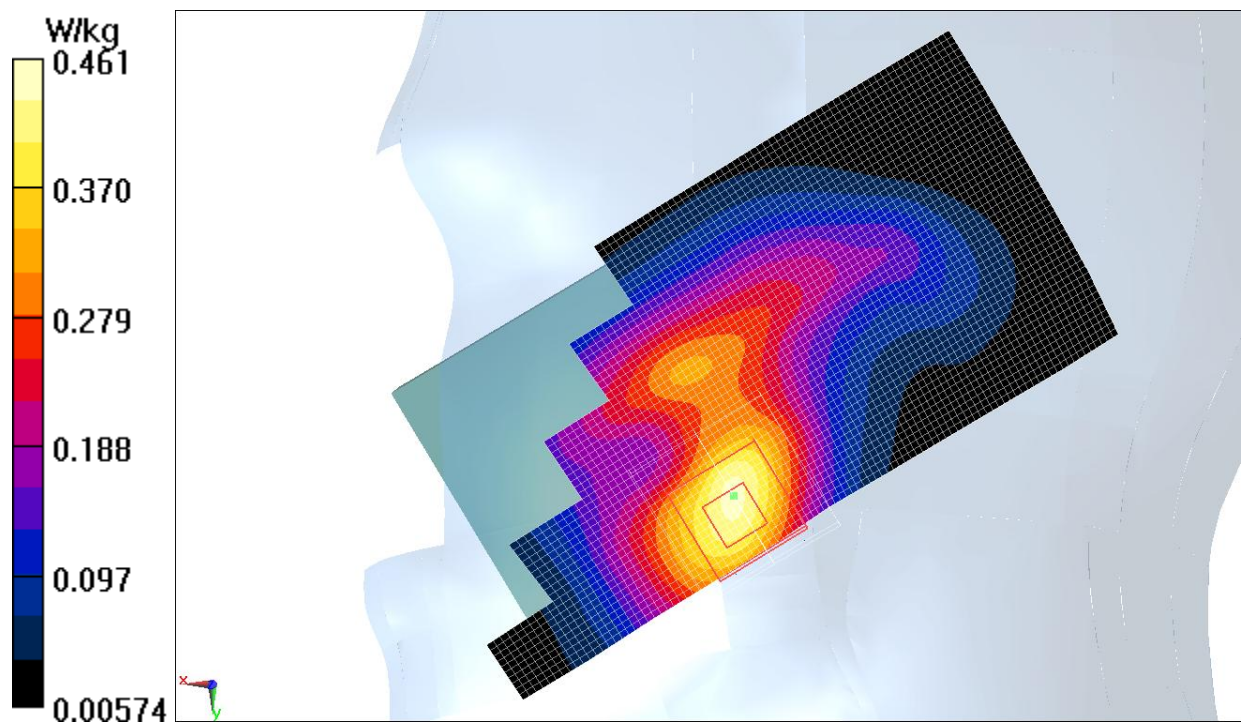
Right Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.115 V/m; Power Drift = 0.15 dB

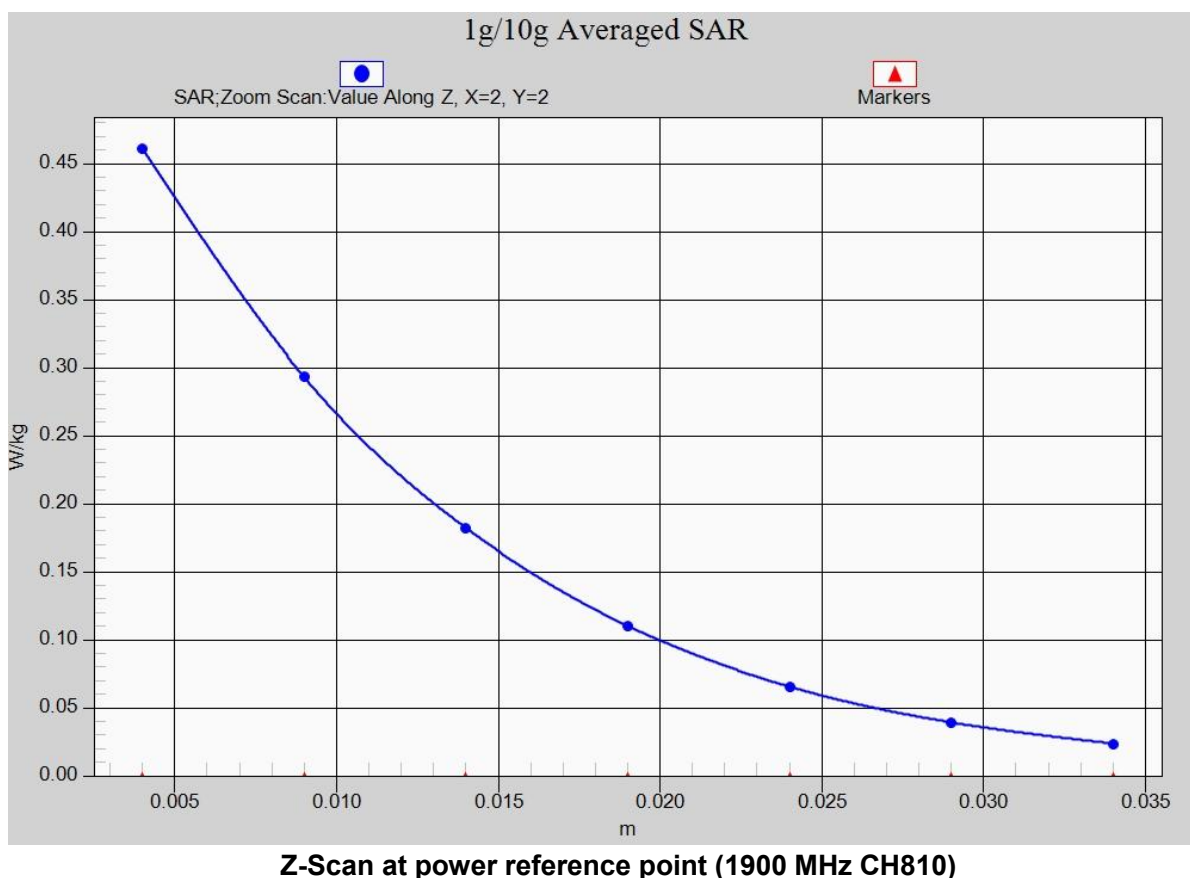
Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



Right Cheek High PCS1900 MHz CH810



PCS1900 body Rear side High

Date: 2014-12-14

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.522$ S/m; $\epsilon_r = 52.593$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.6°C Liquid Temperature: 21.1°C

Communication System: 4 slot GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2.08018

Probe: ES3DV3 - SN3151 ConvF(4.77, 4.77, 4.77);

Rear side High/Area Scan (51x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.611 W/kg

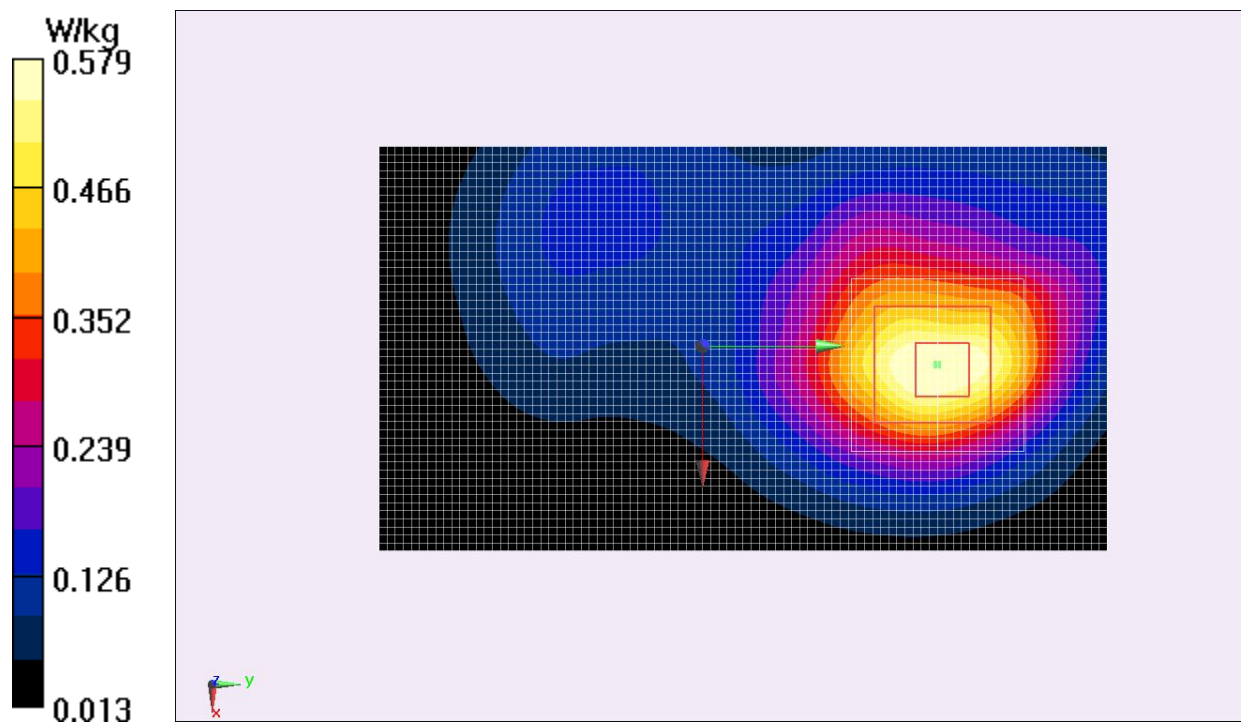
Rear side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.298 V/m; Power Drift = 0.06 dB

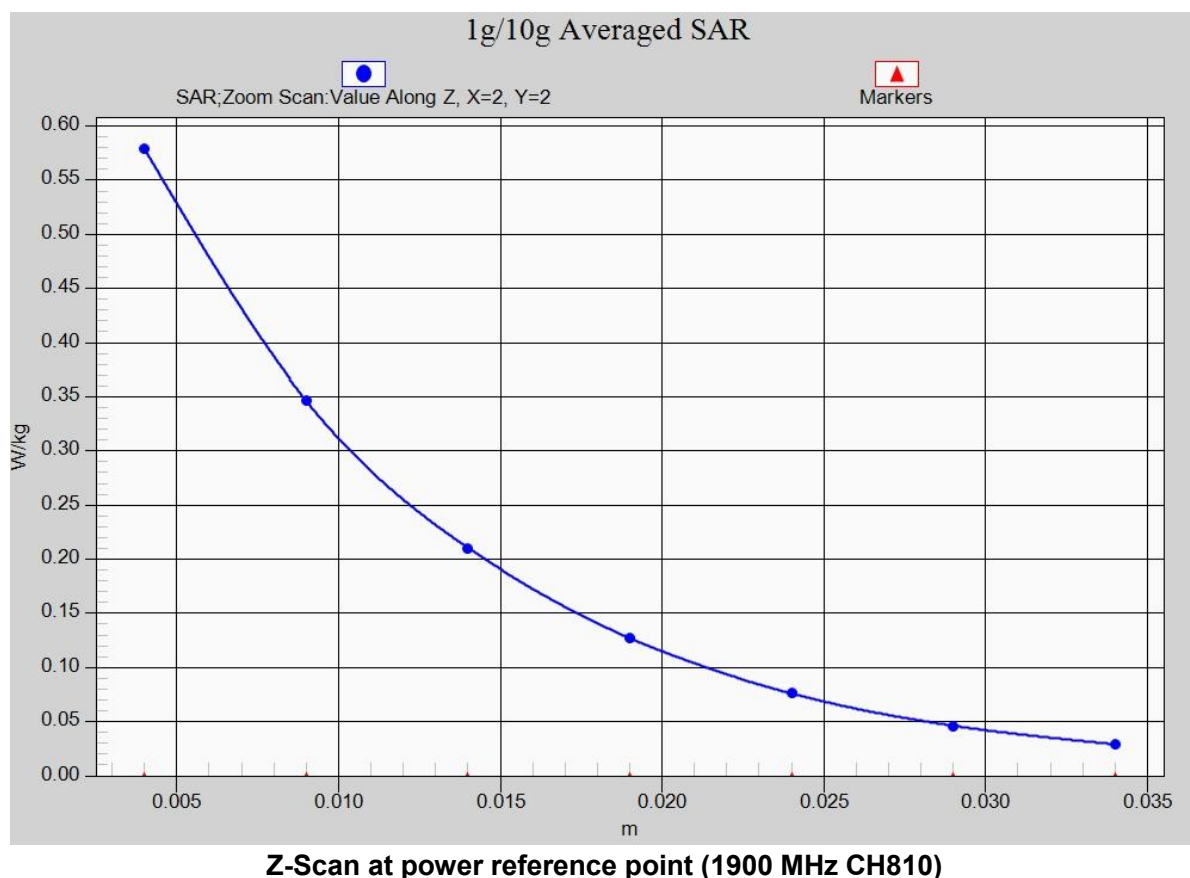
Peak SAR (extrapolated) = 0.894 W/kg

SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.309 W/kg

Maximum value of SAR (measured) = 0.579 W/kg



1900 MHz CH810



WCDMA 850 Left Cheek High

Date: 2014-12-13

Electronics: DAE4 Sn786

Medium: Head 900 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.741$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.0°C Liquid Temperature: 21.0°C

Communication System: WCDMA Frequency: 846.6 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(6.04, 6.04, 6.04);

Left Cheek High/Area Scan (51x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.647 W/kg

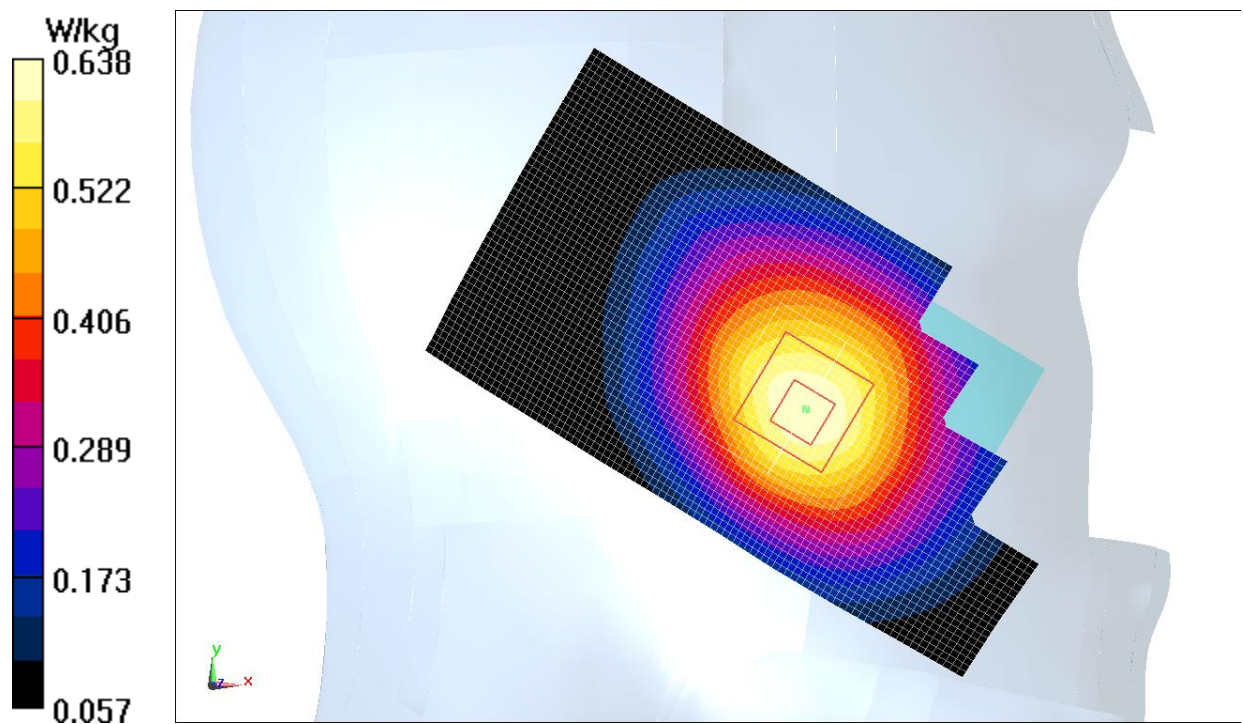
Left Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.746 V/m; Power Drift = 0.02 dB

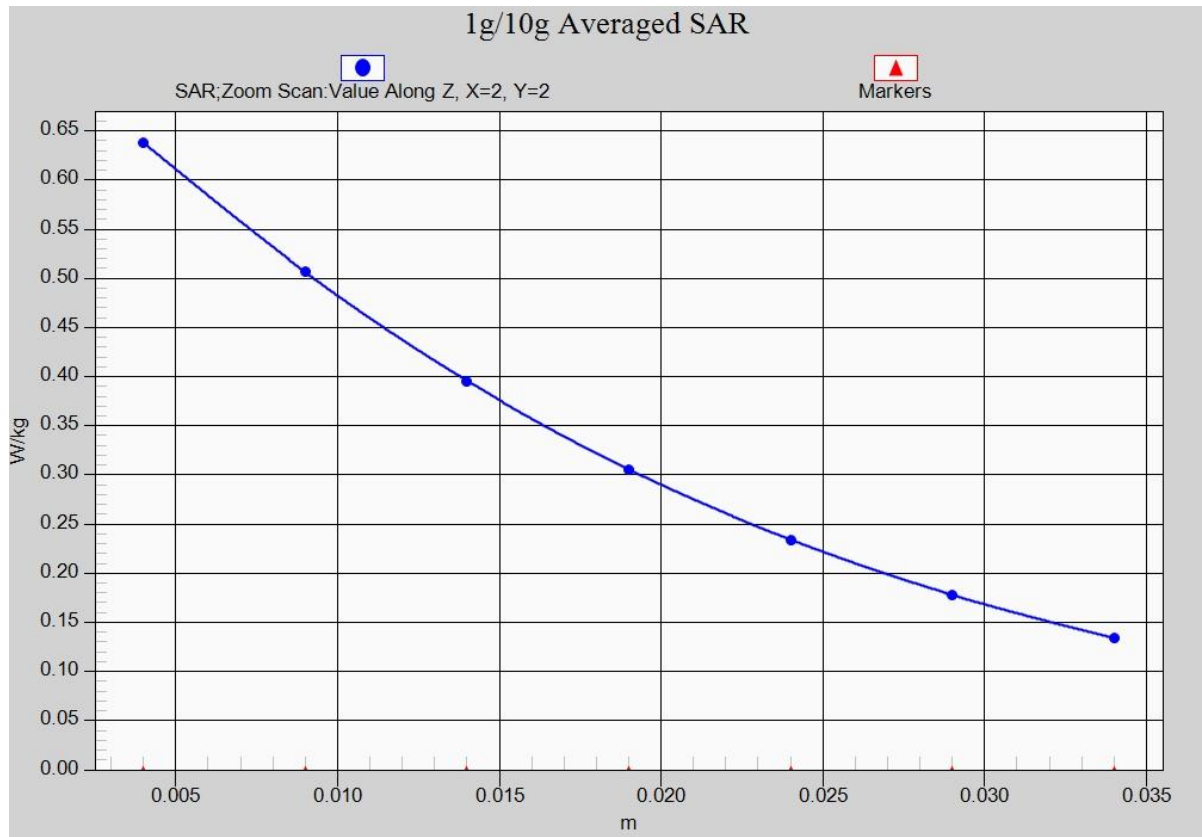
Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.445 W/kg

Maximum value of SAR (measured) = 0.638 W/kg



WCDMA 850 CH4233



Z-Scan at power reference point (WCDMA 850 CH4233)

W850 body Rear side High

Date: 2014-12-13

Electronics: DAE4 Sn786

Medium: Body 900 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.976$ S/m; $\epsilon_r = 55.684$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.7°C Liquid Temperature: 21.2°C

Communication System: WCDMA Frequency: 846.6 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(6.14, 6.14, 6.14);

Rear side High/Area Scan (51x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.914 W/kg

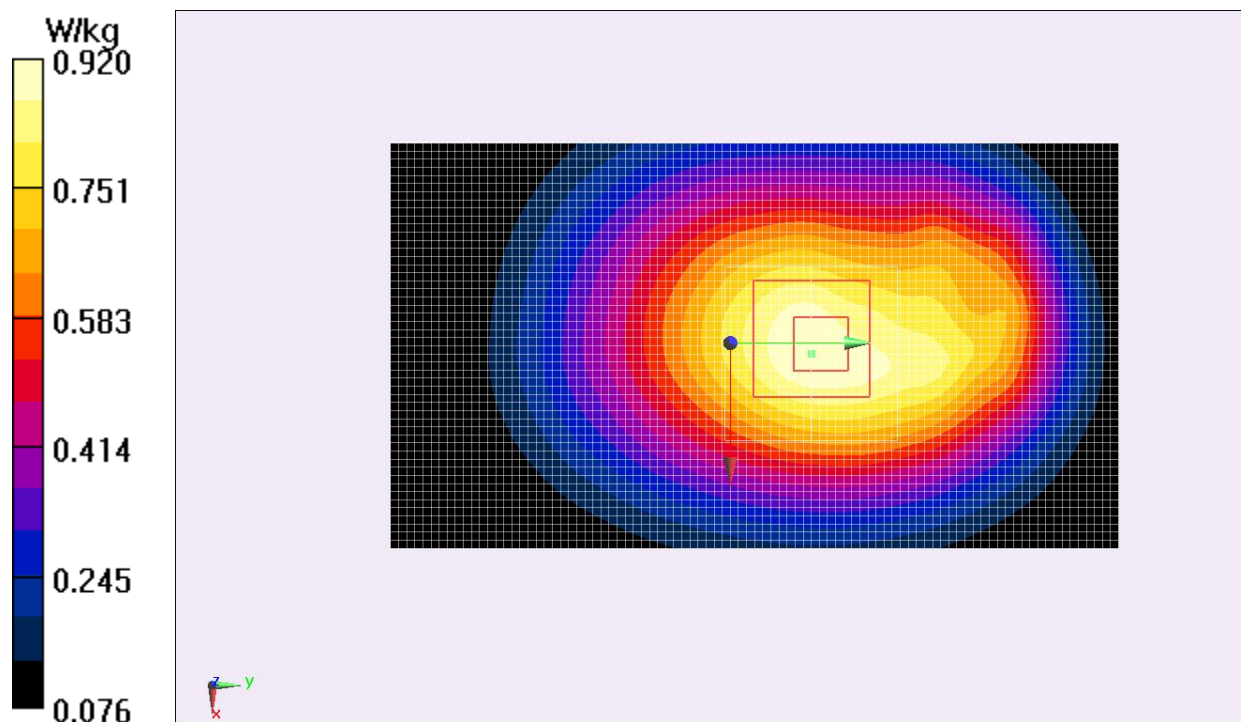
Rear side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.306 V/m; Power Drift = 0.01 dB

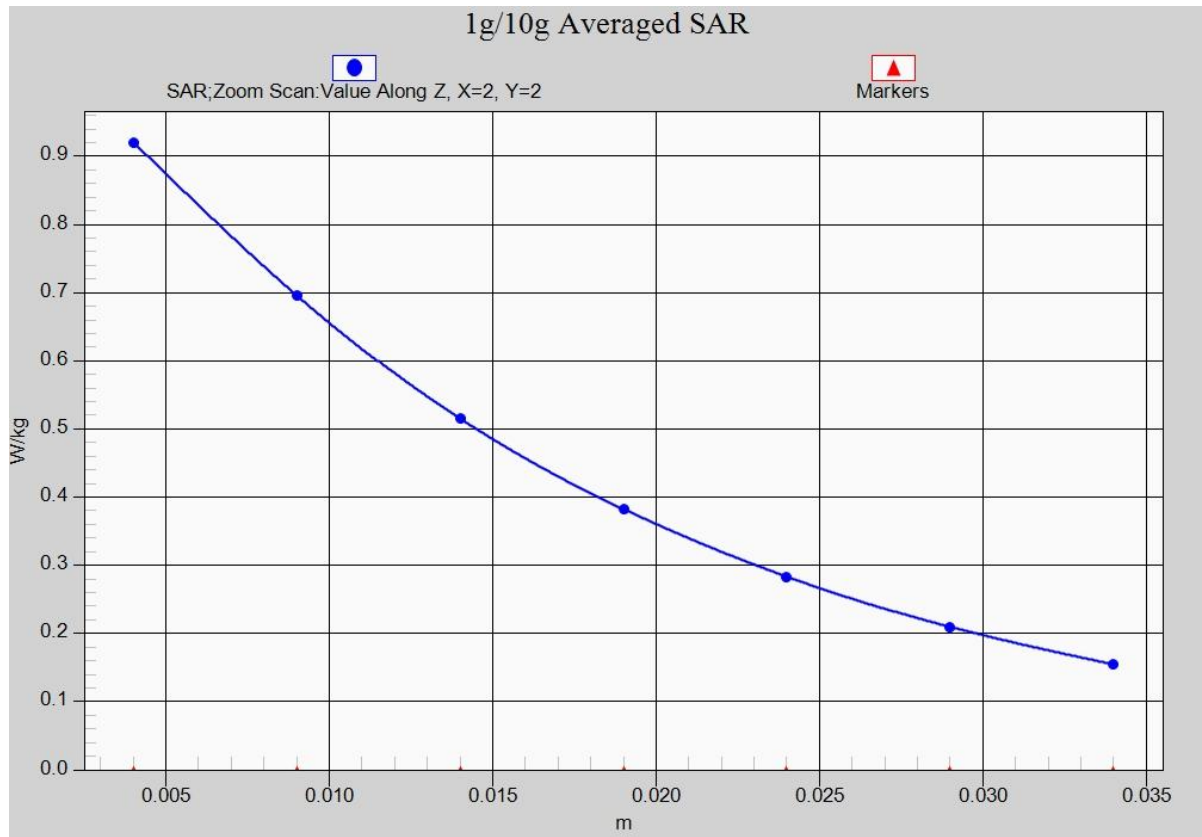
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.629 W/kg

Maximum value of SAR (measured) = 0.920 W/kg



WCDMA 850 CH4233



Z-Scan at power reference point (WCDMA850 CH4233)

WCDMA1900 Right Cheek High

Date: 2014-12-14

Electronics: DAE4 Sn786

Medium: Head 1900

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.454 \text{ S/m}$; $\epsilon_r = 41.035$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 21.7°C Liquid Temperature: 21.2°C

Communication System: WCDMA Frequency: 1908 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(5.16, 5.16, 5.16);

Right Cheek High/Area Scan (51x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.945 W/kg

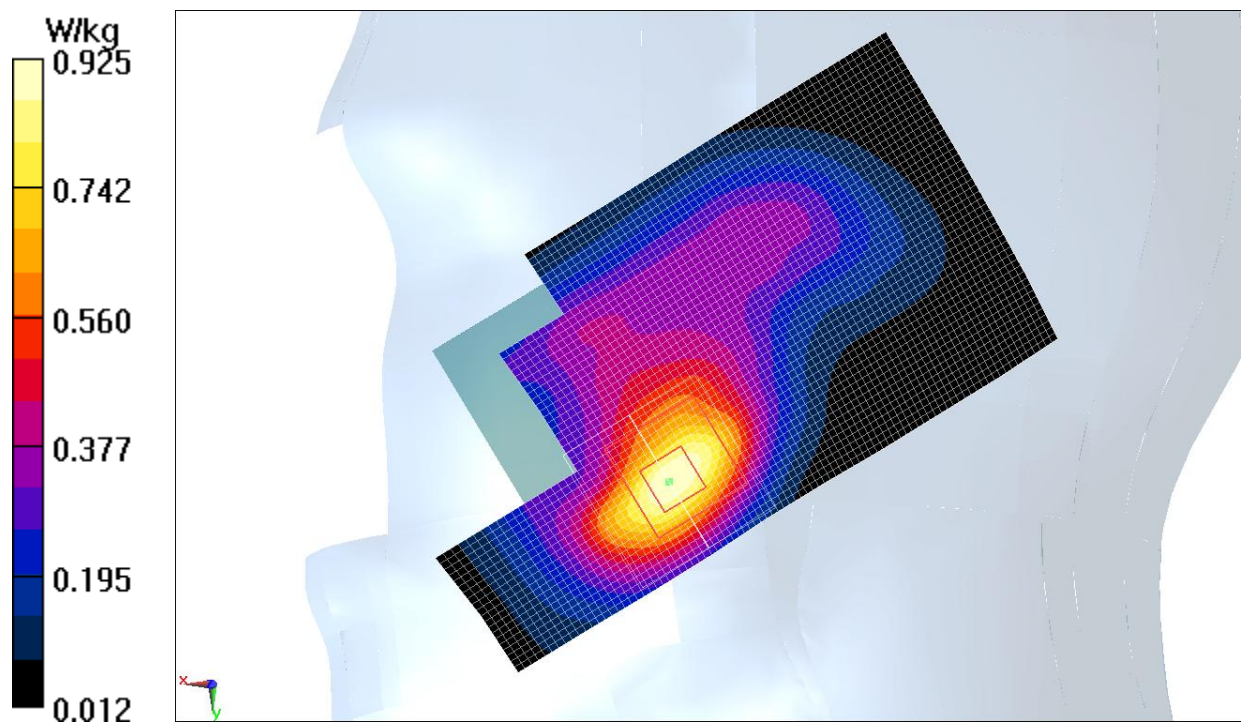
Right Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.183 V/m ; Power Drift = -0.00 dB

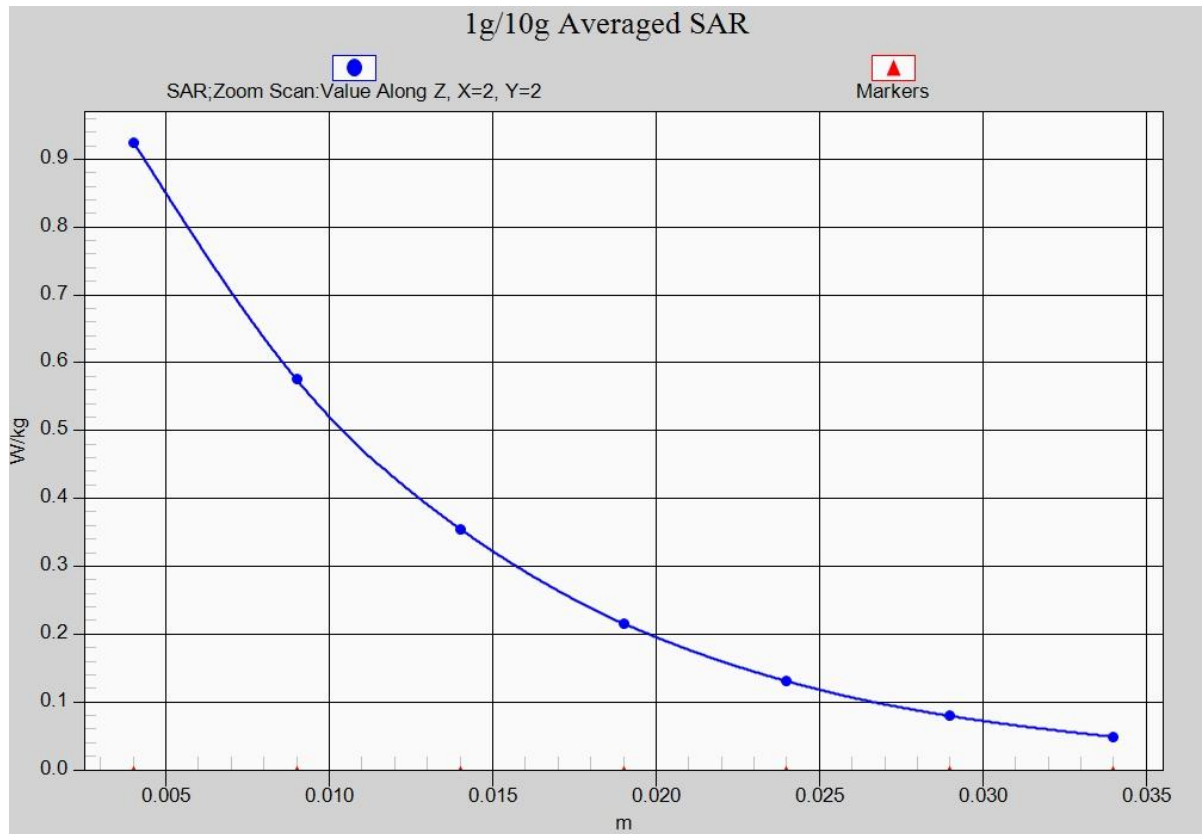
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.826 W/kg ; SAR(10 g) = 0.466 W/kg

Maximum value of SAR (measured) = 0.925 W/kg



WCDMA1900 CH9538



WCDMA1900 Body Rear side High

Date: 2014-12-14

Electronics: DAE4 Sn786

Medium: Body 1900MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.520$ S/m; $\epsilon_r = 52.572$; $\rho = 1000$ kg/m³

Ambient Temperature: 21.9°C Liquid Temperature: 21.4°C

Communication System: WCDMA Frequency: 1908 MHz Duty Cycle: 1:1

Probe: ES3DV3 - SN3151 ConvF(4.77, 4.77, 4.77);

Rear side High/Area Scan (51x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

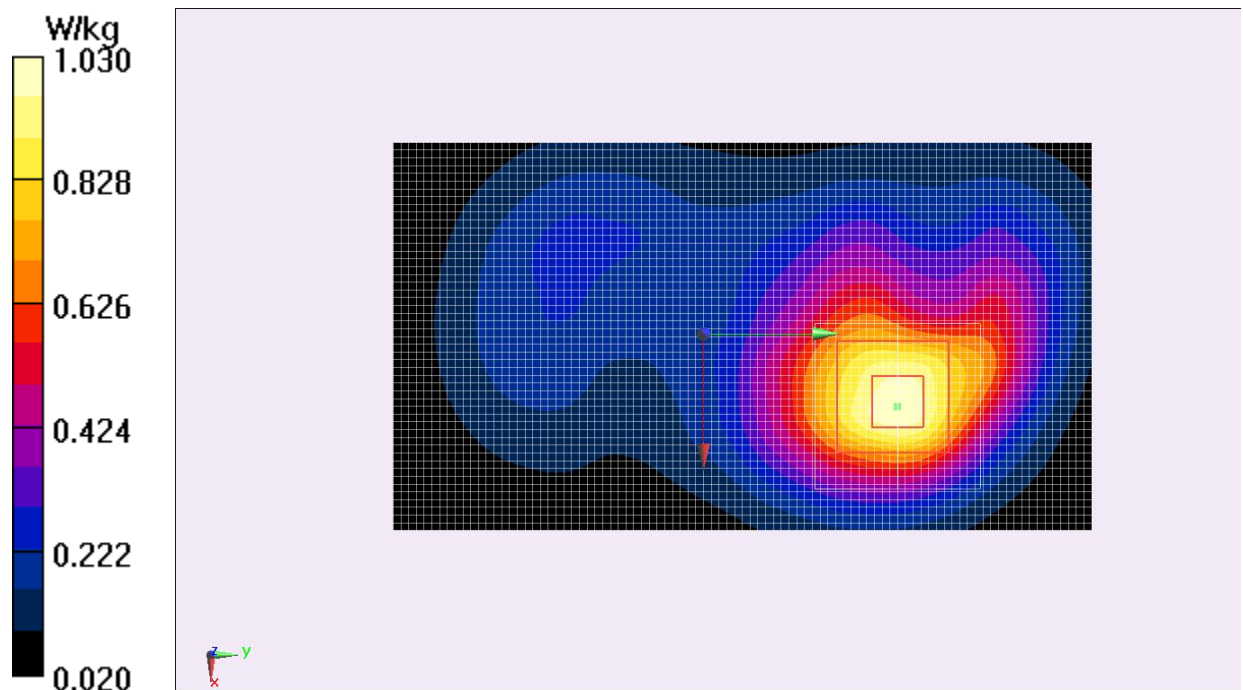
Rear side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.535 V/m; Power Drift = 0.01 dB

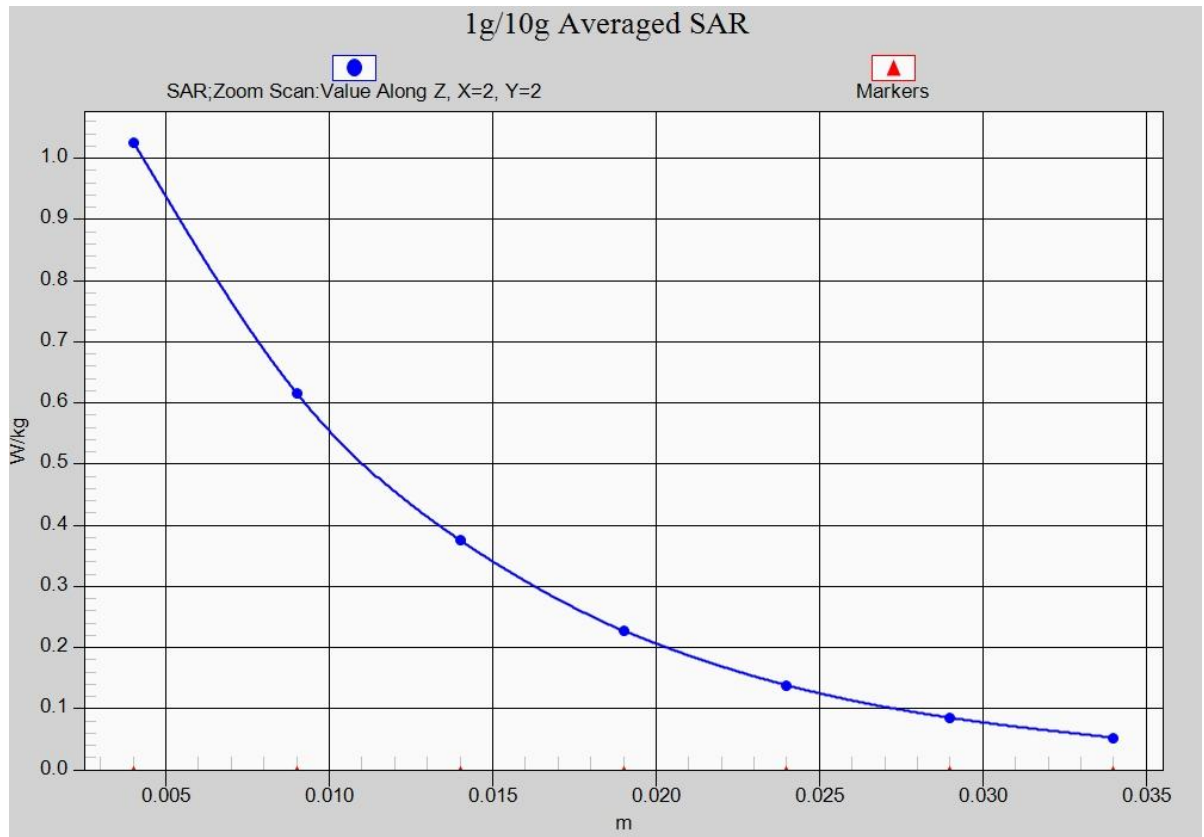
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.935 W/kg; SAR(10 g) = 0.542 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



WCDMA1900 CH9538



Z-Scan at power reference point (WCDMA1900 CH9538)