

ANNEX J Extended Calibration SAR Dipole

Referring to KDB865664 D01, if dipoles are verified in return loss (<-20dBm, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

Justification of Extended Calibration SAR Dipole D750V3– serial no.1163

| Head | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2016-9-19 | -26.8 | | 54.5 | | -1.8 | |
| 2017-9-17 | -25.4 | 5.2 | 53.2 | 1.3 | -2.5 | -0.7 |
| / | / | / | / | / | / | / |

| Body | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2016-9-19 | -29.0 | | 49.8 | | -3.5 | |
| 2017-9-17 | -25.2 | 13.1 | 46.9 | 2.9 | -2.8 | 0.7 |
| / | / | / | / | / | / | / |

Justification of Extended Calibration SAR Dipole D835V2– serial no.4d057

| Head | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-22 | -29.8 | | 49.2 | | -3.12 | |
| 2016-10-20 | -26.7 | 10.4 | 47.5 | -1.7 | -5.74 | -2.62 |
| 2017-10-18 | -26.2 | 12.1 | 47.9 | -1.3 | -5.32 | -2.20 |

| Body | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-22 | -24.7 | | 48.1 | | -5.38 | |
| 2016-10-20 | -22.4 | 9.3 | 46.7 | 1.4 | -4.86 | 0.52 |
| 2017-10-18 | -22.9 | 7.3 | 46.4 | 1.7 | -4.79 | 0.59 |

Justification of Extended Calibration SAR Dipole D1800V2– serial no.2d147

| Head | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-3 | -26.9 | | 47.6 | | -3.68 | |
| 2016-9-28 | -25.7 | 4.4 | 45.8 | -1.8 | -2.81 | 0.87 |
| 2017-9-25 | -25.1 | 6.7 | 48.2 | 0.6 | -5.20 | -1.52 |

| Body | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-3 | -21.1 | | 44.4 | | -6.17 | |
| 2016-9-28 | -22.8 | -8.1 | 46.2 | 1.8 | -5.56 | 0.61 |
| 2017-9-25 | -22.9 | -8.5 | 46.8 | 2.4 | -5.32 | 0.85 |

Justification of Extended Calibration SAR Dipole D1900V2– serial no.5d088

| Head | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-4 | -22.4 | | 52.7 | | 7.33 | |
| 2016-9-28 | -25.3 | -12.9 | 50.8 | -1.9 | 5.82 | 1.51 |
| 2017-9-25 | -24.9 | -11.2 | 51.2 | -1.5 | 6.22 | 1.11 |

| Body | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-4 | -25.4 | | 50.9 | | 5.36 | |
| 2016-9-28 | -23.7 | 6.7 | 48.9 | -2.0 | 2.74 | -2.62 |
| 2017-9-25 | -23.2 | 8.7 | 48.3 | -2.6 | 3.84 | -1.52 |

Justification of Extended Calibration SAR Dipole D2450V2– serial no.873

| Head | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-30 | -26.6 | | 53.4 | | 3.42 | |
| 2016-10-20 | -25.1 | 5.6 | 55.1 | 1.7 | 2.91 | 0.51 |
| 2017-10-18 | -25.7 | 3.4 | 54.6 | 0.8 | 3.04 | 0.38 |

| Body | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-10-30 | -23.7 | | 50.5 | | 6.53 | |
| 2016-10-20 | -24.9 | 5.1 | 49.2 | 1.3 | 7.28 | 0.75 |
| 2017-10-18 | -25.5 | 7.6 | 49.6 | 0.9 | 7.11 | 0.58 |

Justification of Extended Calibration SAR Dipole D2550V2– serial no.1010

| Head | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-7-24 | -29.5 | | 52.8 | | -2.0 | |
| 2016-7-22 | -26.4 | 10.5 | 51.1 | 1.7 | -2.62 | -0.62 |
| 2017-7.21 | -27.3 | 7.5 | 53.9 | 1.1 | -3.84 | -1.84 |

| Body | | | | | | |
|---------------------|------------------|-----------|----------------------|-------------|----------------------------|--------------|
| Date of Measurement | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (johm) | Delta (johm) |
| 2015-7-24 | -36.6 | | 50.0 | | -1.5 | |
| 2016-7-22 | -34.2 | 6.6 | 52.8 | 2.8 | -2.67 | -1.17 |
| 2017-7-21 | -37.5 | -2.5 | 52.4 | 2.4 | -3.11 | -1.61 |

The Return-Loss is <-20dB, and within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the value result should support extended c.

ANNEX K Spot Check Test

As the test lab for M809L from Meizu Technology Co., Ltd., we, Shenzhen Academy of Information and Communications Technology, declare on our sole responsibility that, according to “Justification Letter” provided by applicant, only the Spot check test should be performed. If the spot check value is larger than the original value and does not exceed half of the SAR limit, the same configuration is tested to replace the original values and others are quoted. Otherwise, all the original values are quoted directly. The test results are as below.

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

| EUT ID* | IMEI | HW Version | SW Version |
|---------|-----------------------|------------|----------------|
| EUT8 | IMEI: 867877030004868 | V1.0 | Meizu 8.1.1.0G |
| EUT9 | IMEI: 867877030004801 | V1.0 | Meizu 8.1.1.0G |
| EUT10 | IMEI: 867873030006326 | V1.0 | Meizu 8.1.1.0G |

K.2 Measurement results

SAR Values (GSM850)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-----|---------------|------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 836.6 | 190 | Head | Left Touch | 0.159 | 0.22 | 0.26 |
| 836.6 | 190 | Body | Rear | 0.523 | 0.53 | 0.35 |

SAR Values (GSM1900)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-----|---------------|-------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 1880 | 661 | Head | Right Touch | 0.080 | 0.10 | 0.18 |
| 1880 | 661 | Body | Bottom | 0.319 | 0.41 | 0.63 |

SAR Values (CDMA BC0)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-----|---------------|------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 836.5 | 384 | Head | Left Touch | 0.349 | 0.40 | 0.52 |
| 836.5 | 384 | Body | Rear | 0.401 | 0.46 | 0.64 |

SAR Values (WCDMA 850)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|------|---------------|------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 836.4 | 4182 | Head | Left Touch | 0.219 | 0.27 | 0.46 |
| 836.4 | 4182 | Body | Rear | 0.384 | 0.47 | 0.64 |

SAR Values (WCDMA 1900)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|------|---------------|-------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 1880 | 9400 | Head | Right Touch | 0.112 | 0.13 | 0.34 |
| 1880 | 9400 | Body | Bottom | 0.337 | 0.38 | 0.58 |

SAR Values (WCDMA 1700)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|------|---------------|-------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 1732.6 | 1413 | Head | Right Touch | 0.032 | 0.04 | 0.08 |
| 1712.4 | 1312 | Body | Bottom | 0.595 | 0.68 | 1.32 |

SAR Values (LTE-Band 2)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-------|---------------|-------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 1880 | 18900 | Head | Right Touch | 0.123 | 0.16 | 0.26 |
| 1880 | 18900 | Body | Rear | 0.486 | 0.61 | 0.64 |

SAR Values (LTE-Band 4)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-------|---------------|-------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 1732.5 | 20175 | Head | Right Touch | 0.019 | 0.02 | 0.08 |
| 1720 | 20050 | Body | Rear | 0.796 | 0.99 | 1.36 |

SAR Values (LTE-Band 5)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-------|---------------|------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 836.5 | 20525 | Head | Left Touch | 0.173 | 0.20 | 0.43 |
| 836.5 | 20525 | Body | Rear | 0.357 | 0.41 | 0.52 |

SAR Values (LTE-Band 7)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-------|---------------|-------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 2535 | 21100 | Head | Right Touch | 0.121 | 0.15 | 0.17 |
| 2535 | 21100 | Body | Rear | 0.647 | 0.78 | 0.74 |

SAR Values (WLAN 2.4G)

| Frequency | | Test Position | | SAR(1g) (W/kg) | | |
|-----------|-----|---------------|------------|-----------------|--------------|---------------|
| MHz | Ch. | | | Spot check data | | Original data |
| | | | | Measured SAR | Reported SAR | |
| 2437 | 6 | Head | Left Touch | 0.290 | 0.33 | 0.46 |
| 2437 | 6 | Body | Rear | 0.103 | 0.12 | 0.14 |

GSM 850 Head

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 40.532$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, GSM (0) Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 – SN3151 ConvF (6.47, 6.47, 6.47);

Left Cheek Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

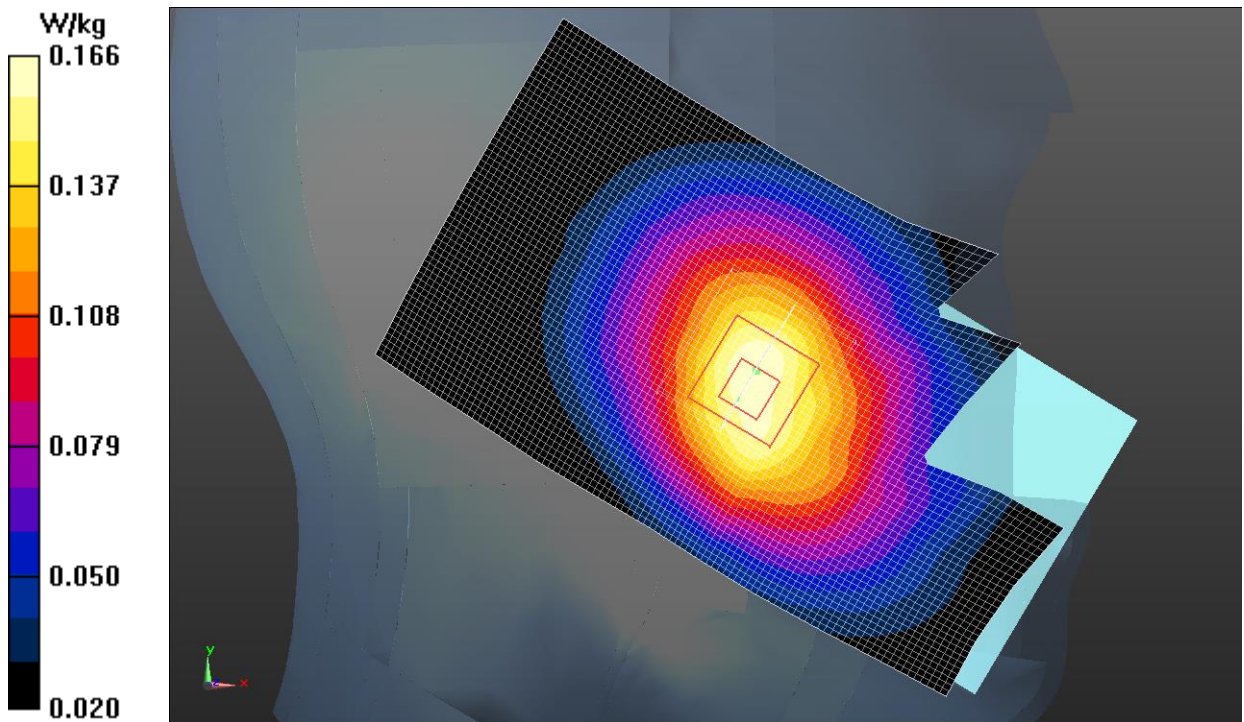
Left Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.165 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.166 W/kg



GSM 850 Body

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 54.033$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, GPRS 3Txslot (0) Frequency: 836.6 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 – SN3151 ConvF (6.38, 6.38, 6.38);

Rear side Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.605 W/kg

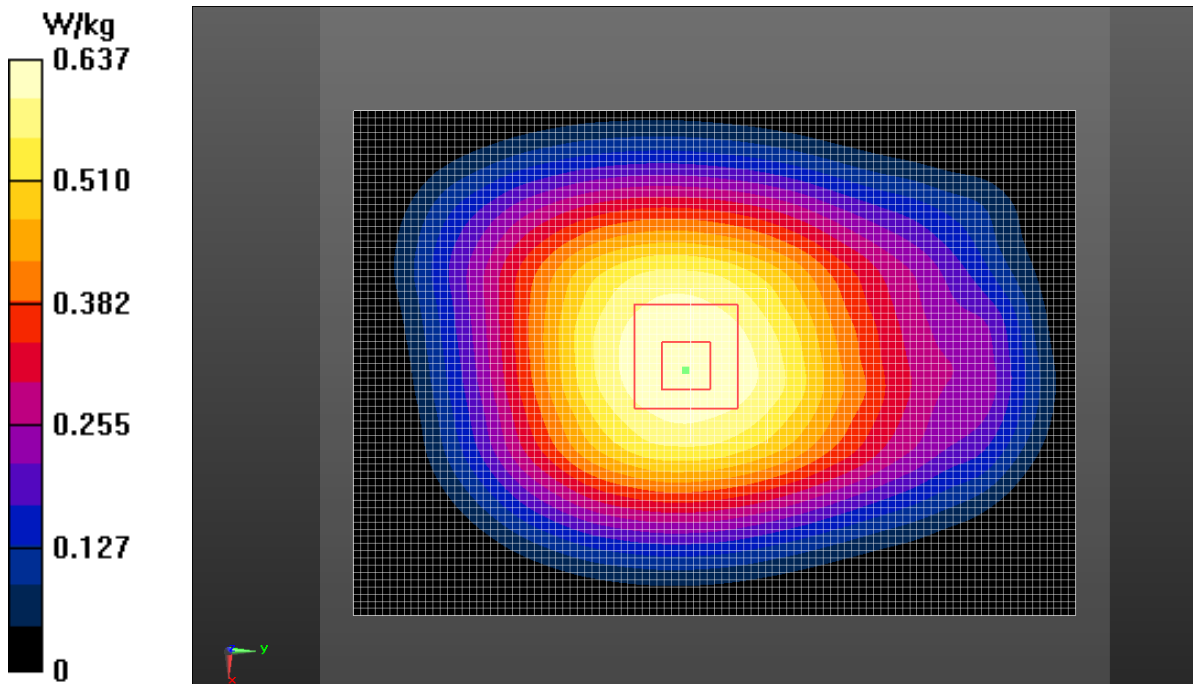
Rear side Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.61 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 0.637 W/kg



GSM 1900 Head

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.155$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, GSM (0) Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 – SN3151 ConvF (5.09, 5.09, 5.09);

Right Cheek Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.087 W/kg

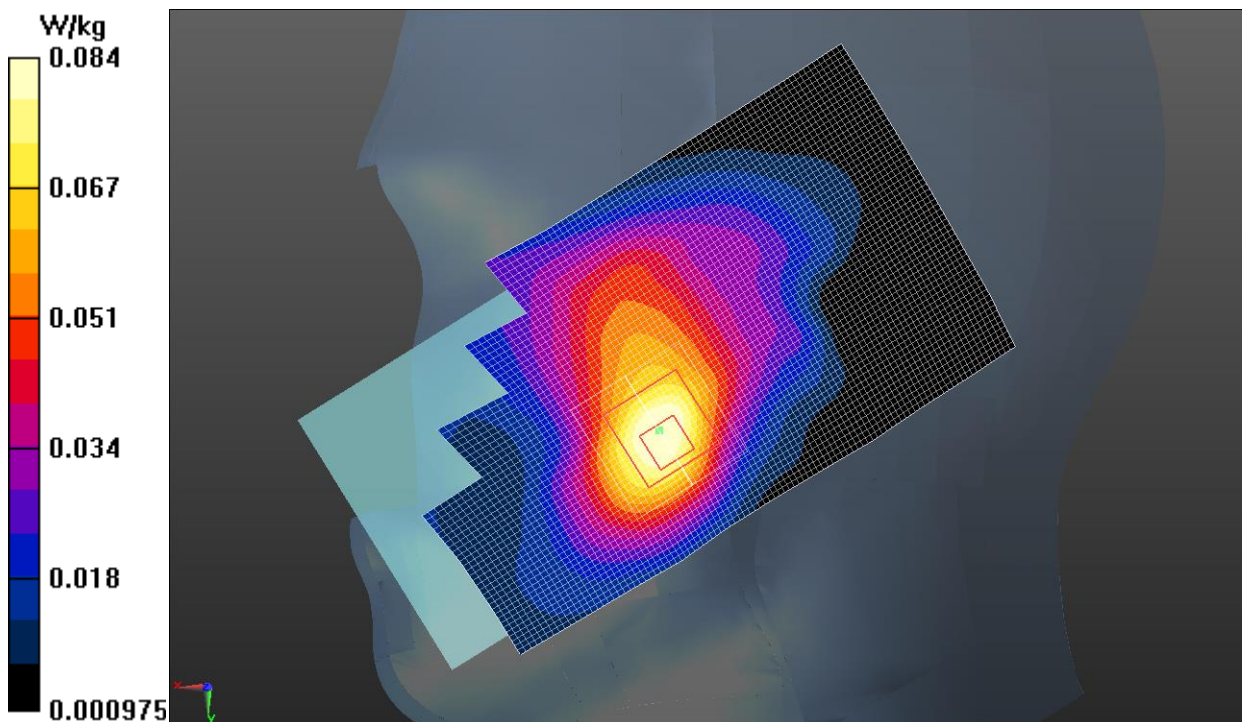
Right Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.922 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.084 W/kg



GSM 1900 Body

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.533$ S/m; $\epsilon_r = 51.806$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, 3 slot GPRS (0) Frequency: 1880 MHz Duty Cycle: 1:2.67

Probe: ES3DV3 – SN3151 ConvF (4.89, 4.89, 4.89);

Bottom side Mid/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.377 W/kg

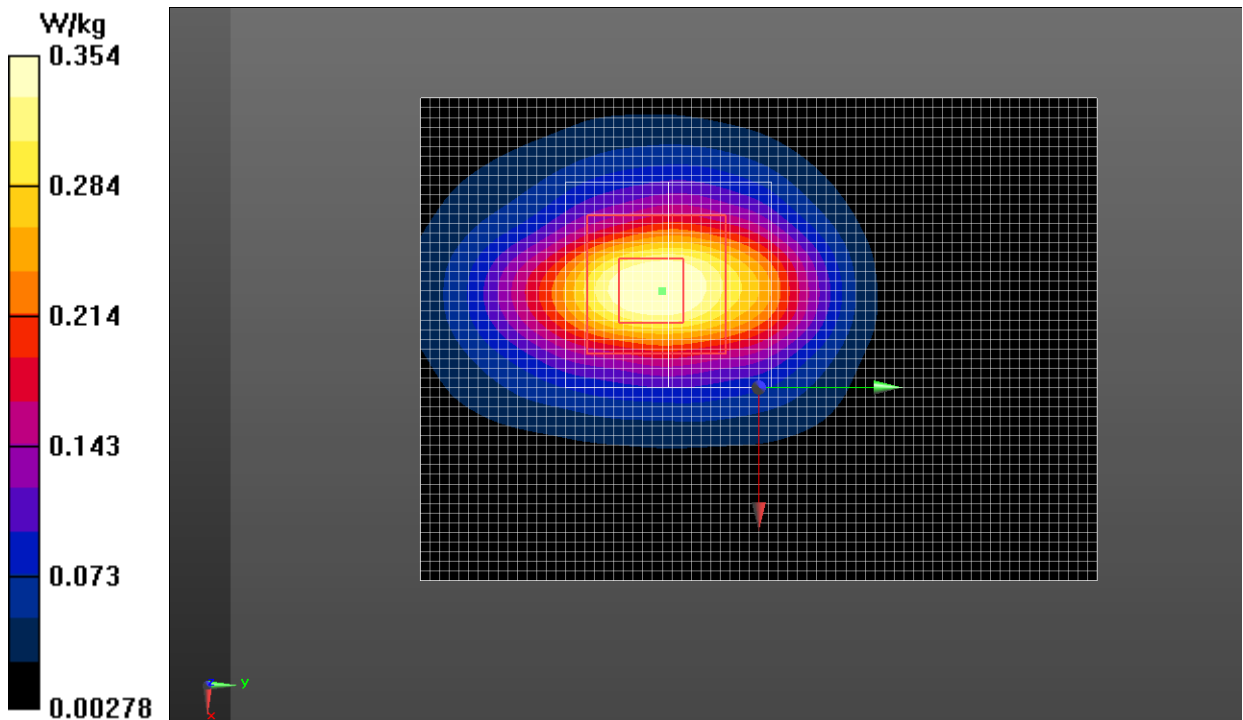
Bottom side Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.399 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 0.354 W/kg



CDMA BC0 Head

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 40.554$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, CDMA850 Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (6.47, 6.47, 6.47);

Left cheek Mid/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.378 W/kg

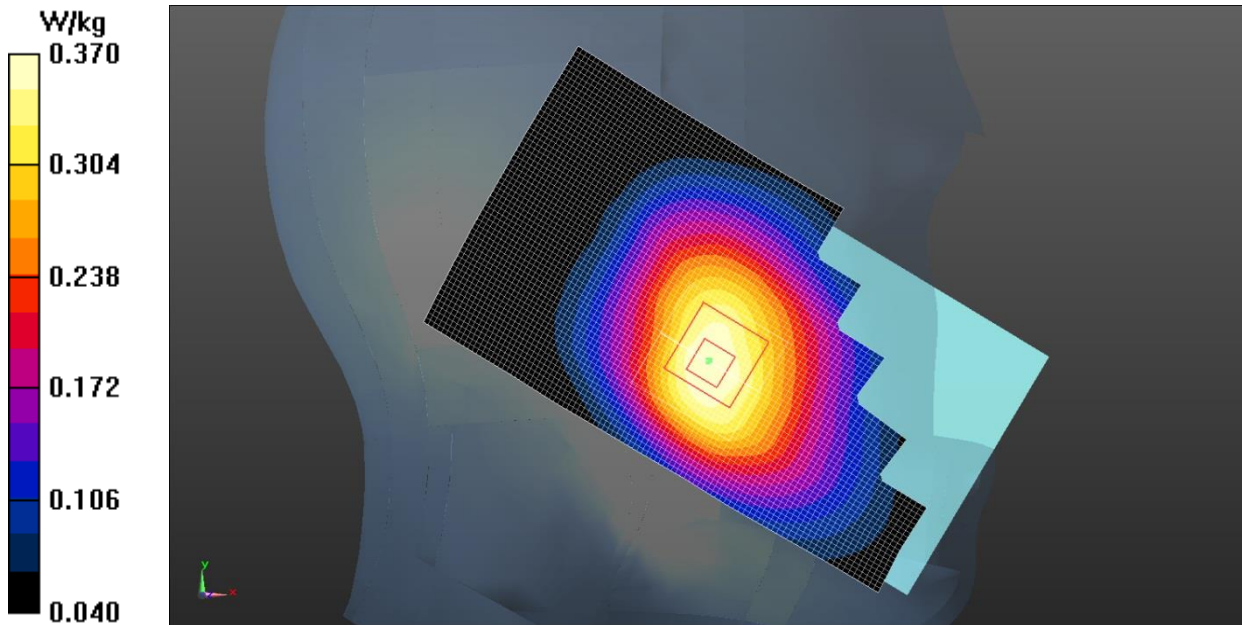
Left cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.799 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 0.370 W/kg



CDMA BC0 Body

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 54.037$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, CDMA (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (6.38, 6.38, 6.38);

Rear side Mid /Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.467 W/kg

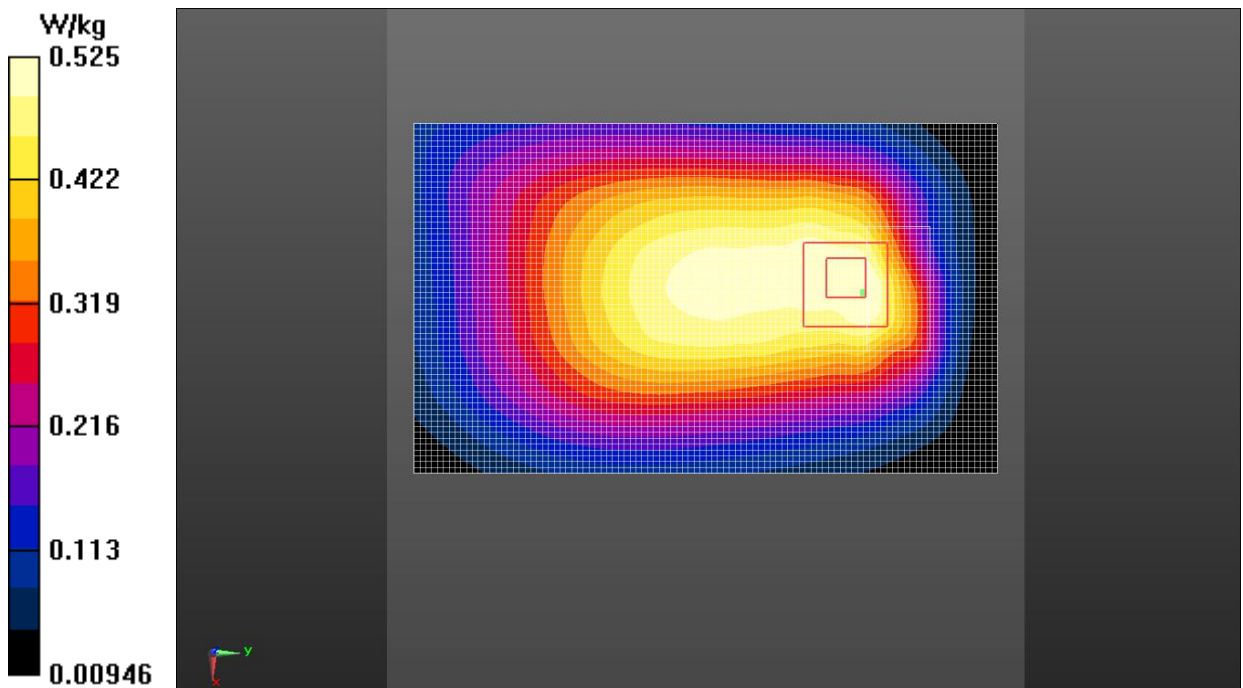
Rear side Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.25 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.779 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.525 W/kg



WCDMA 850 Head

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 40.544$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WCDMA (0) Frequency: 836.4 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (6.47, 6.47, 6.47);

Left Cheek Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.234 W/kg

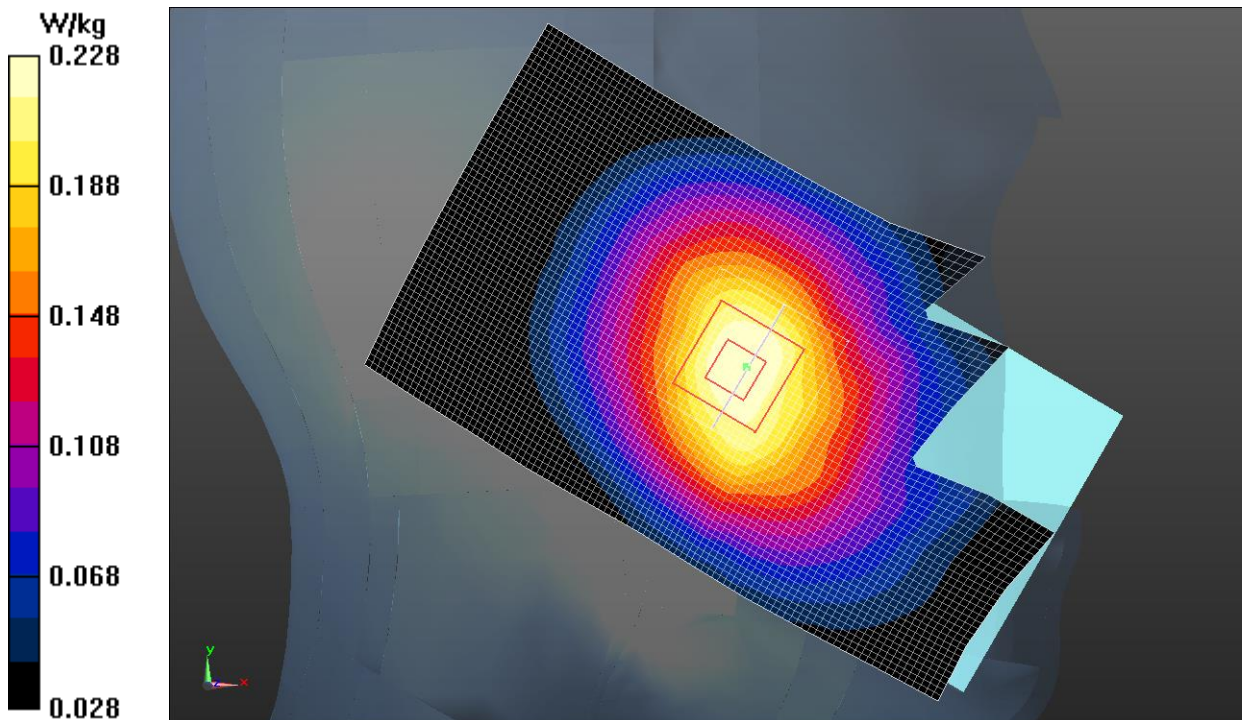
Left Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.671 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.275 W/kg

SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.228 W/kg



WCDMA 850 Body

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 54.034$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WCDMA (0) Frequency: 836.4 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (6.38, 6.38, 6.38);

Rear side Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.408 W/kg

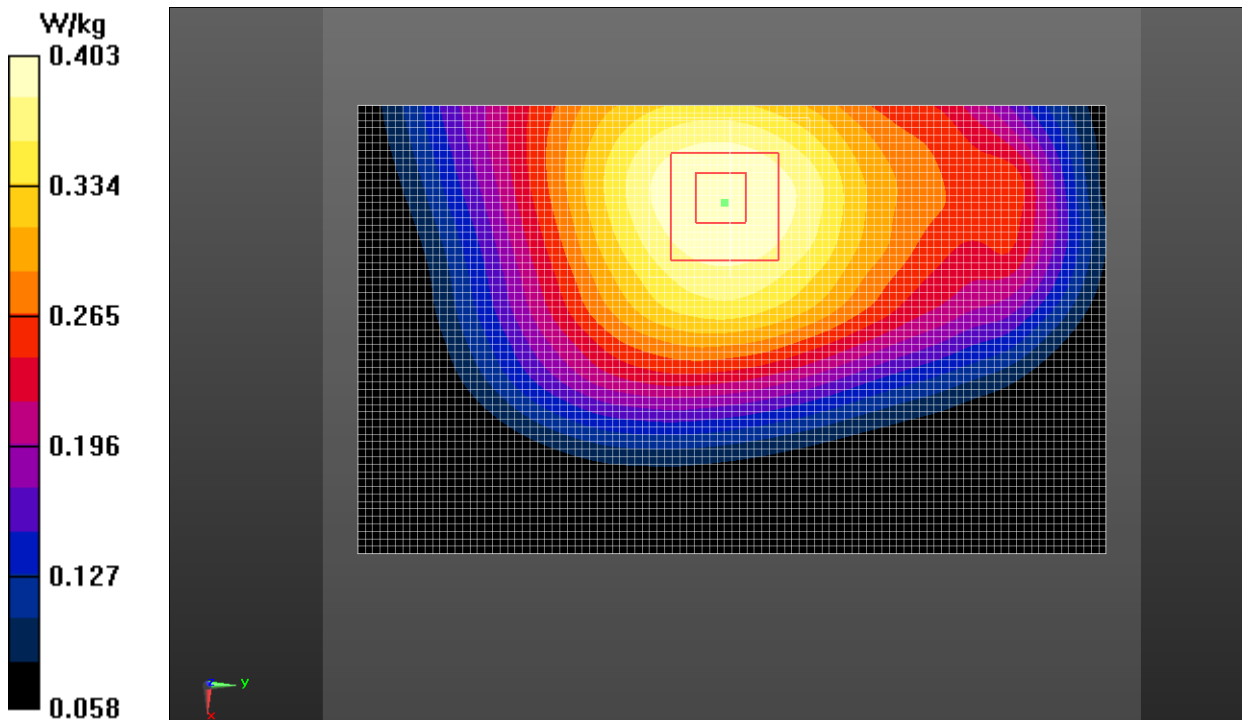
Rear side Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.22 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.293 W/kg

Maximum value of SAR (measured) = 0.403 W/kg



WCDMA 1900 Head

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.155$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WCDMA (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (5.09, 5.09, 5.09);

Right Cheek Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.126 W/kg

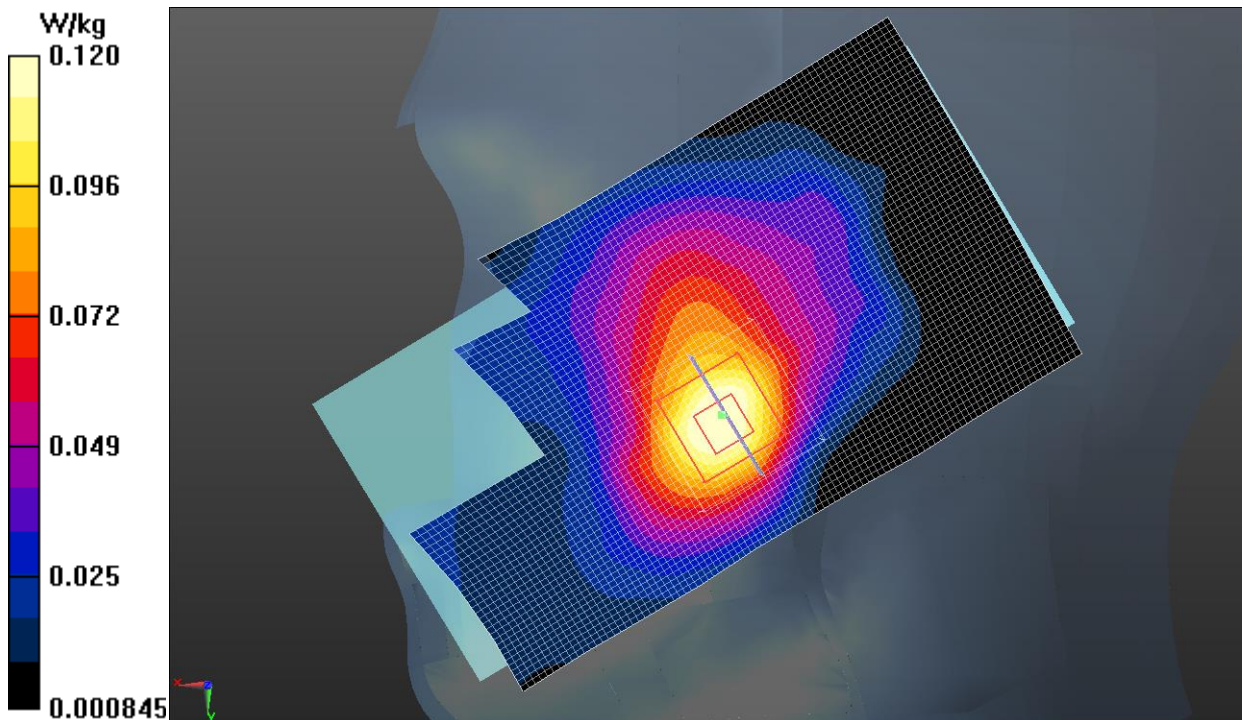
Right Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.969 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.120 W/kg



WCDMA 1900 Body

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.533$ S/m; $\epsilon_r = 51.806$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, 3 slot GPRS (0) Frequency: 1880 MHz Duty Cycle: 1:2.80027

Probe: ES3DV3 – SN3151 ConvF (4.89, 4.89, 4.89);

Bottom side Mid/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.377 W/kg

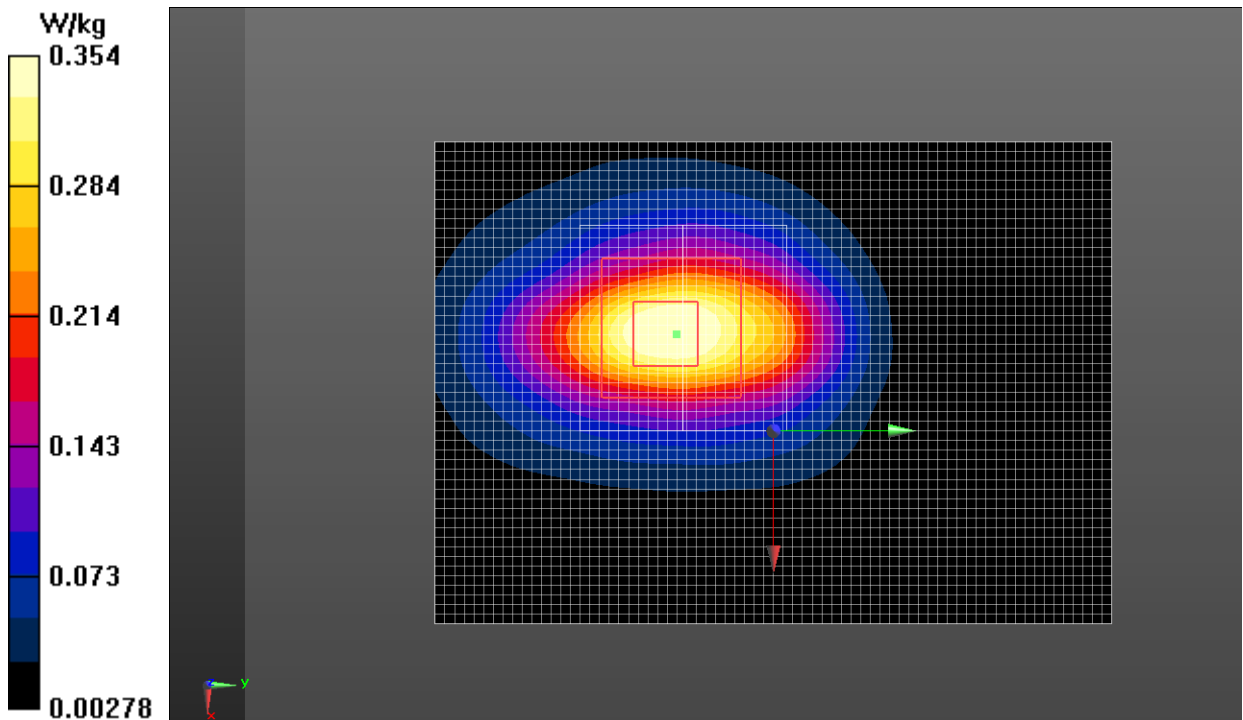
Bottom side Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.399 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.354 W/kg



WCDMA 1700 Head

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1800 MHz

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 39.706$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WCDMA (0) Frequency: 1732.6 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.89, 4.89, 4.89);

Right Cheek Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.077 W/kg

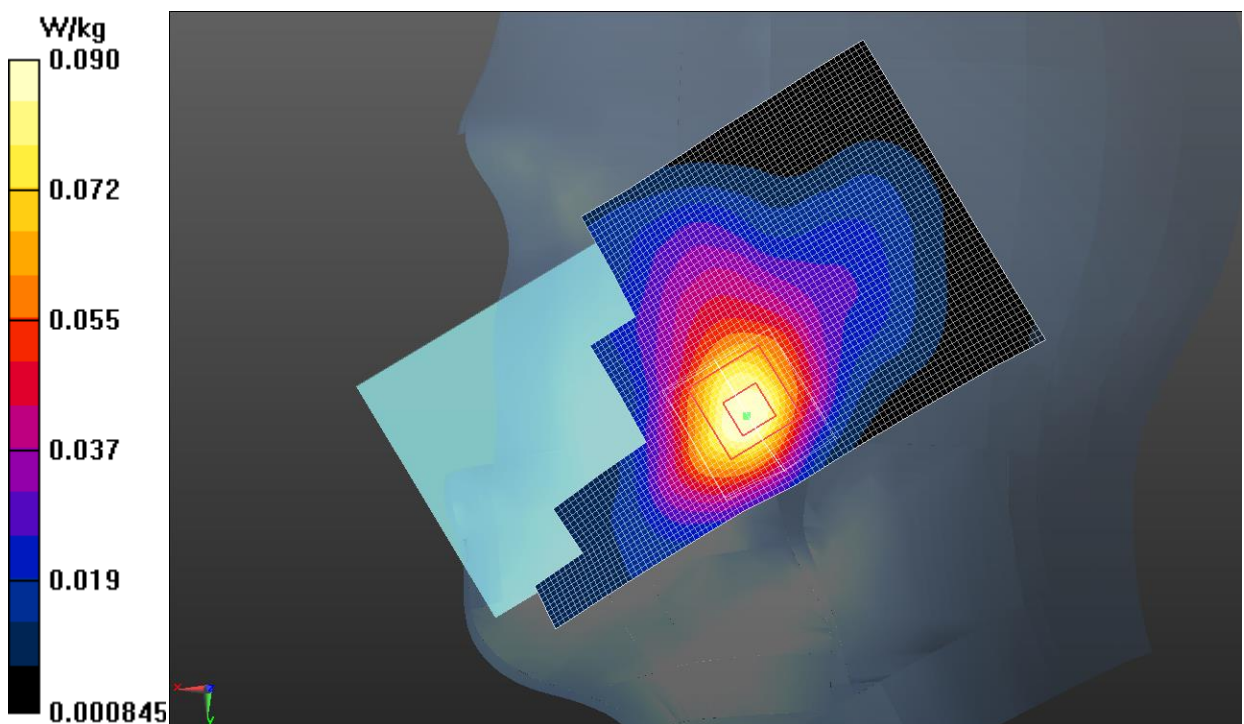
Right Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.225 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.010 W/kg

Maximum value of SAR (measured) = 0.090 W/kg



WCDMA 1700 Body

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1800 MHz

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.433$ S/m; $\epsilon_r = 52.543$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WCDMA (0) Frequency: 1712.4 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (5.11, 5.11, 5.11);

Bottom side Low/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.701 W/kg

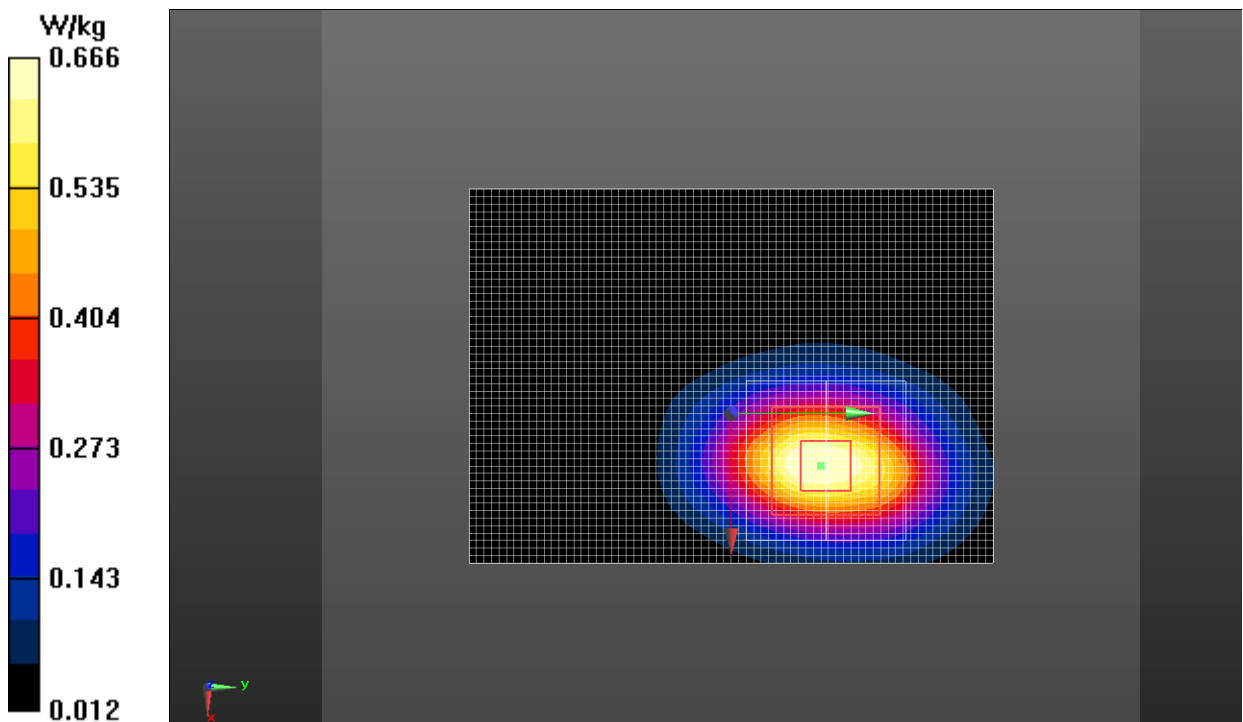
Bottom side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.26 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.978 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 0.666 W/kg



LTE Band 2 Head

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.155$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (5.09, 5.09, 5.09);

Right Cheek Mid 1RB_LowArea Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.145 W/kg

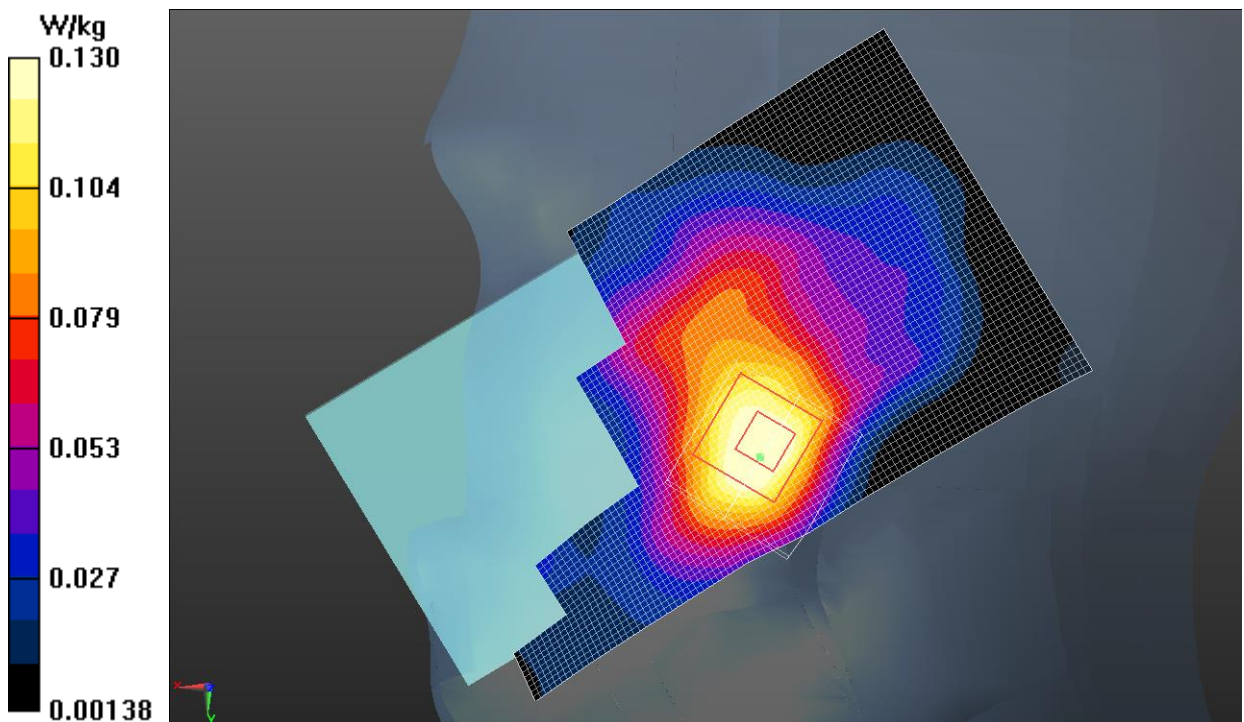
Right Cheek Mid 1RB_Low /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.231 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.130 W/kg



LTE Band 2 Body

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.533$ S/m; $\epsilon_r = 51.806$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.89, 4.89, 4.89);

Rear side Mid 1RB_Low/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.552 W/kg

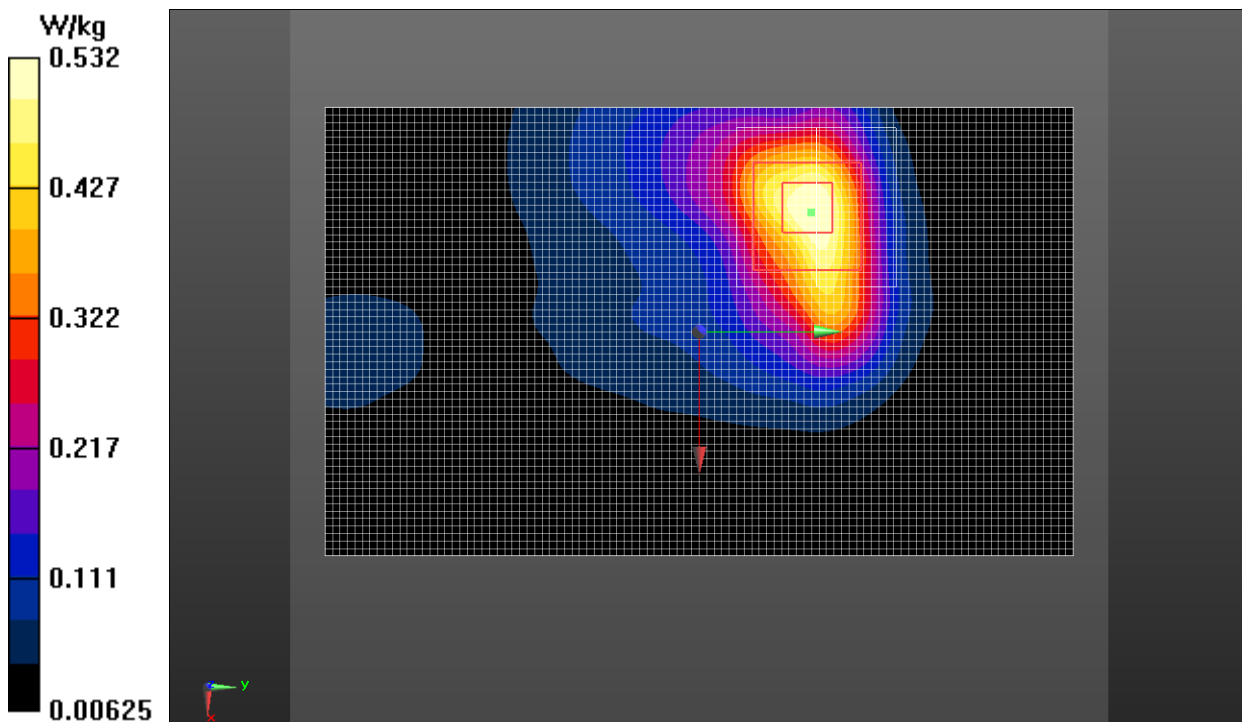
Rear side Mid 1RB_Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.715 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.532 W/kg



LTE Band 4 Head

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1800 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 39.708$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 1732.5 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.89, 4.89, 4.89);

Right Cheek Mid 1RB_Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.035 W/kg

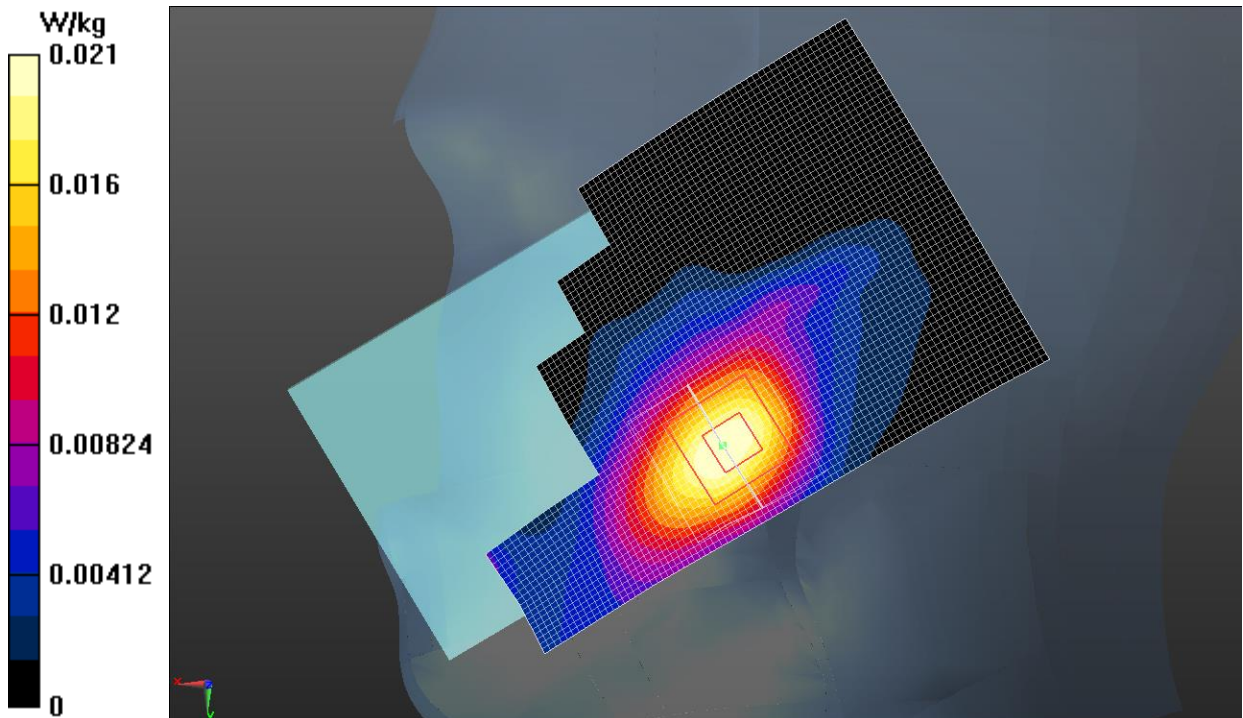
Right Cheek Mid 1RB_Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.460 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0290 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.021 W/kg



LTE Band 4 Body

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1800 MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.441$ S/m; $\epsilon_r = 52.62$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 1720 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (5.11, 5.11, 5.11);

Rear side Low 1RB_Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.963 W/kg

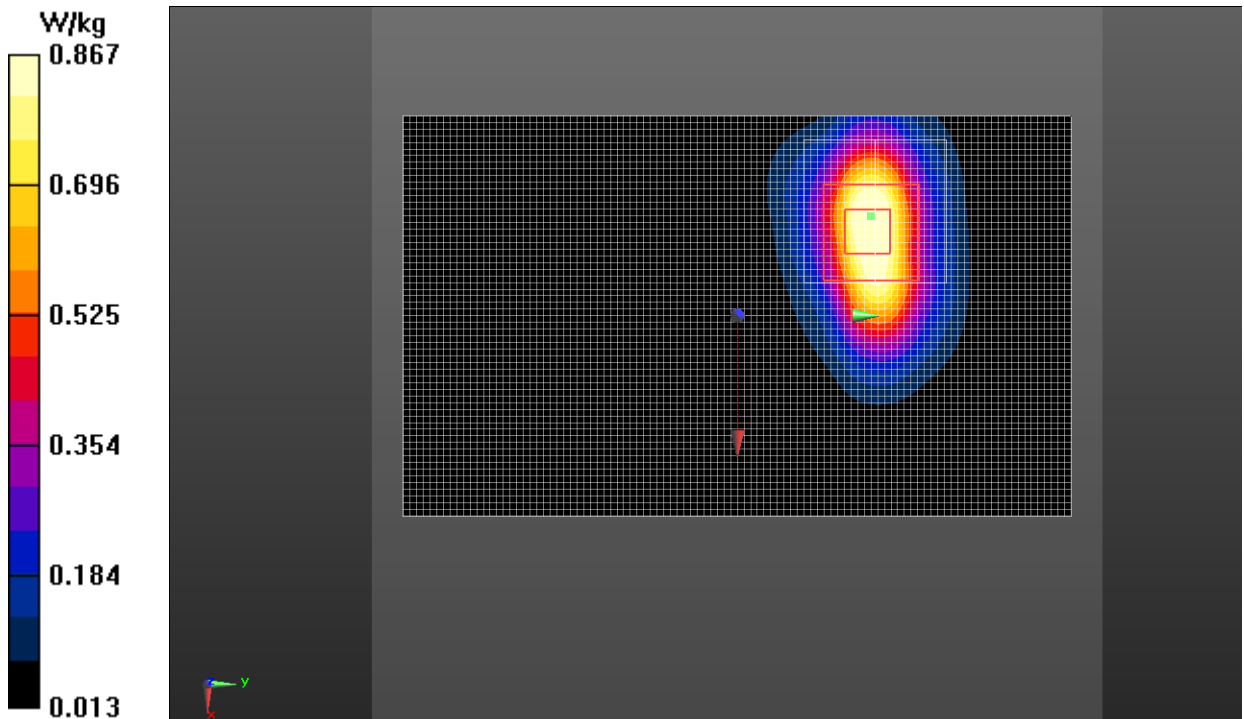
Rear side Low 1RB_Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.573 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.429 W/kg

Maximum value of SAR (measured) = 0.867 W/kg



LTE Band 5 Head

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 40.554$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (6.47, 6.47, 6.47);

Left Cheek Mid 25RB_High/Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.193 W/kg

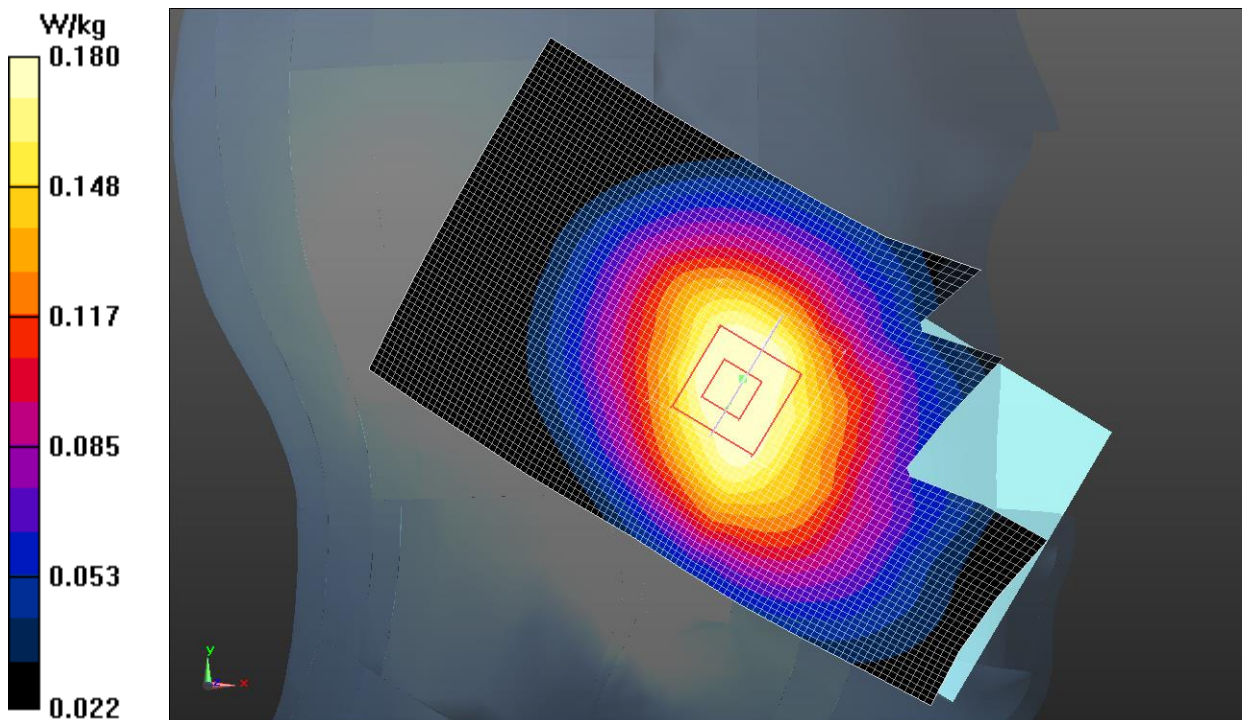
Left Cheek Mid 25RB_High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.464 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.217 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 0.180 W/kg



LTE Band 5 Body

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 54.037$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (6.38, 6.38, 6.38);

Rear side Mid 25RB_High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.377 W/kg

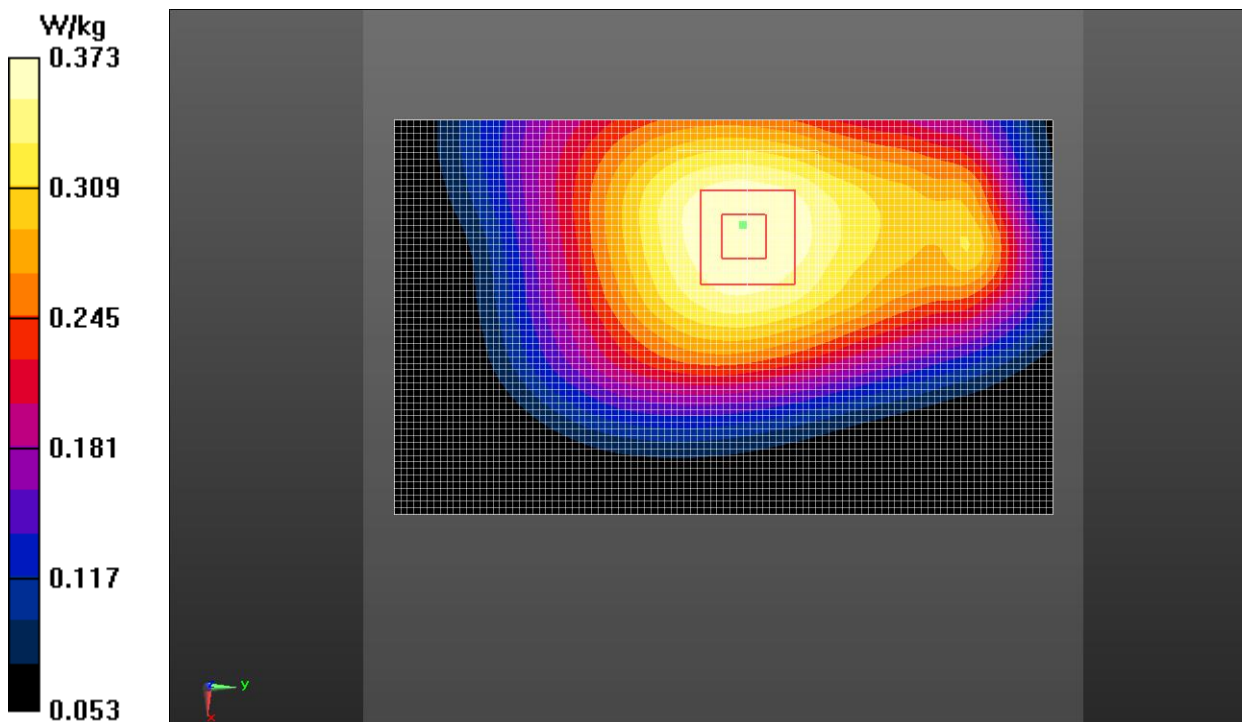
Rear side Mid 25RB_High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.91 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.448 W/kg

SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



LTE Band 7 Head

Date: 2018-4-9

Electronics: DAE4 Sn786

Medium: Head 2550 MHz

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.946$ S/m; $\epsilon_r = 38.218$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.53, 4.53, 4.53);

Right Cheek Mid 1RB_Mid/Area Scan(61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.147 W/kg

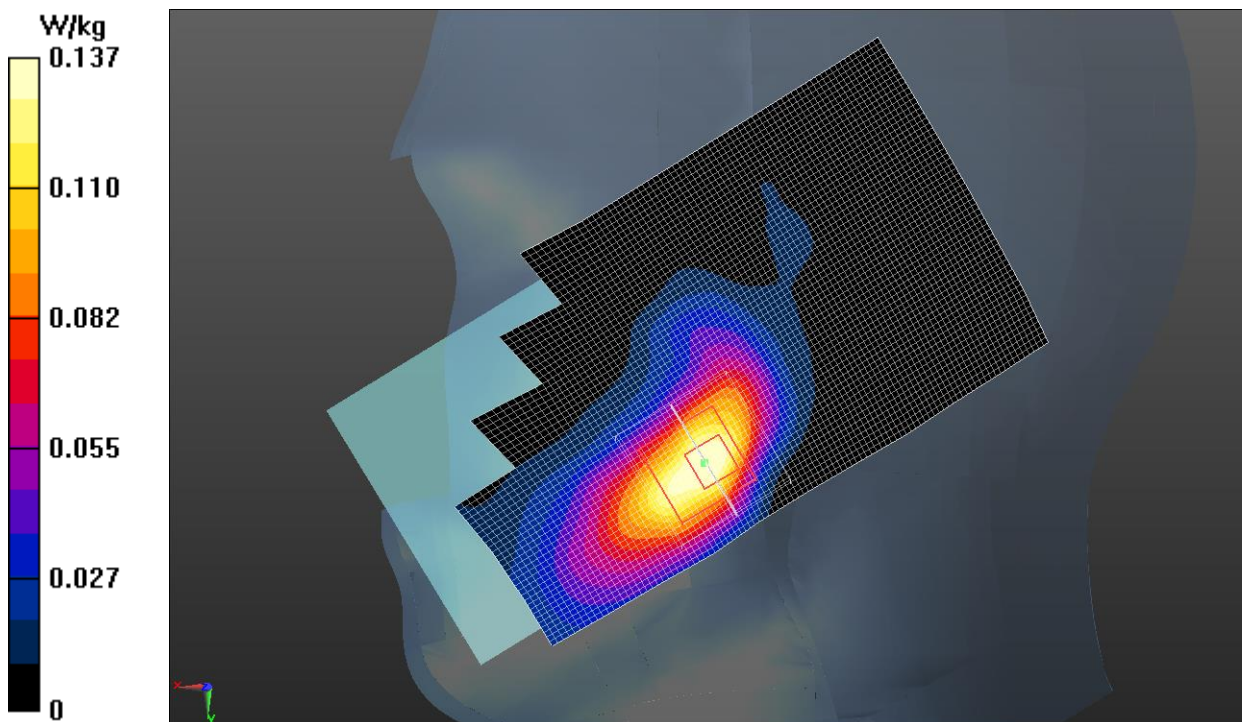
Right Cheek Mid 1RB_Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.258 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.137 W/kg



LTE Band 7 Body

Date: 2018-4-9

Electronics: DAE4 Sn786

Medium: Body 2550 MHz

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 2.093$ S/m; $\epsilon_r = 52.121$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, LTE_FDD (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.24, 4.24, 4.24);

Rear Side Mid 1RB_Mid /Area Scan (71x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.728 W/kg

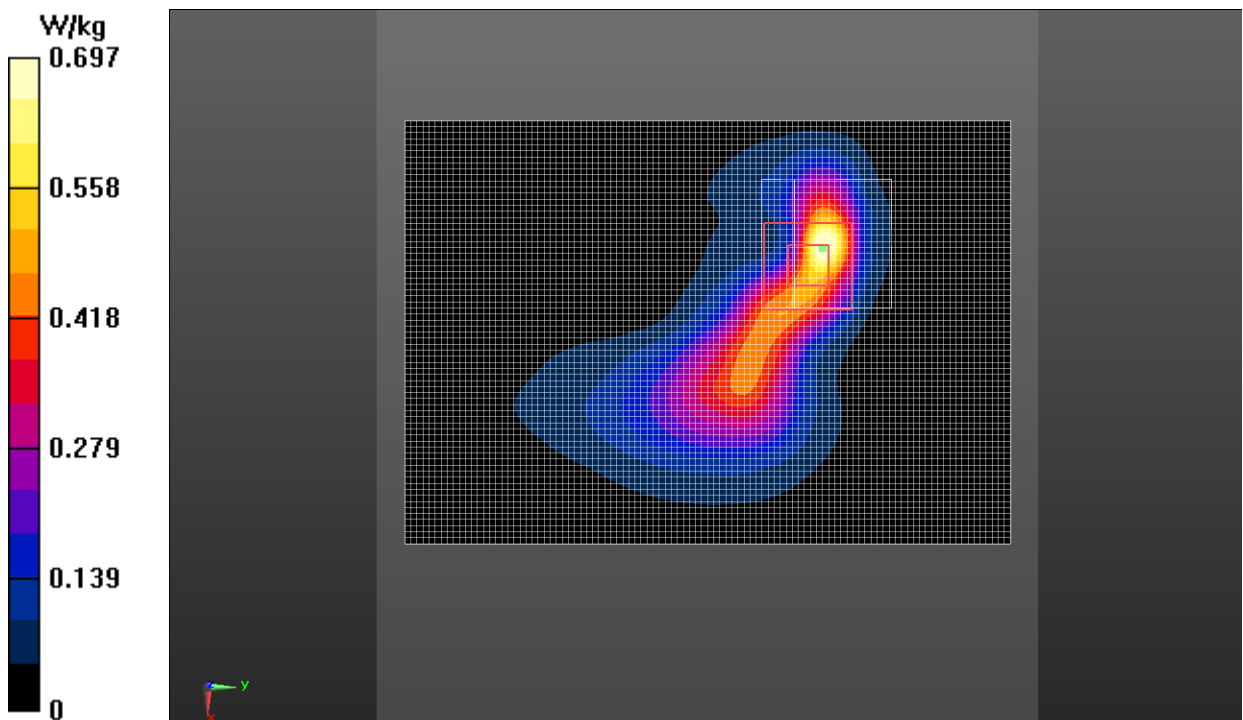
Rear Side Mid 1RB_Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.394 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 0.697 W/kg



WIFI 2.4G Head

Date: 2018-4-8

Electronics: DAE4 Sn786

Medium: Head 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.827$ S/m; $\epsilon_r = 38.441$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WiFi (0) Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.57, 4.57, 4.57);

Left Cheek Mid/Area Scan (71x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.331 W/kg

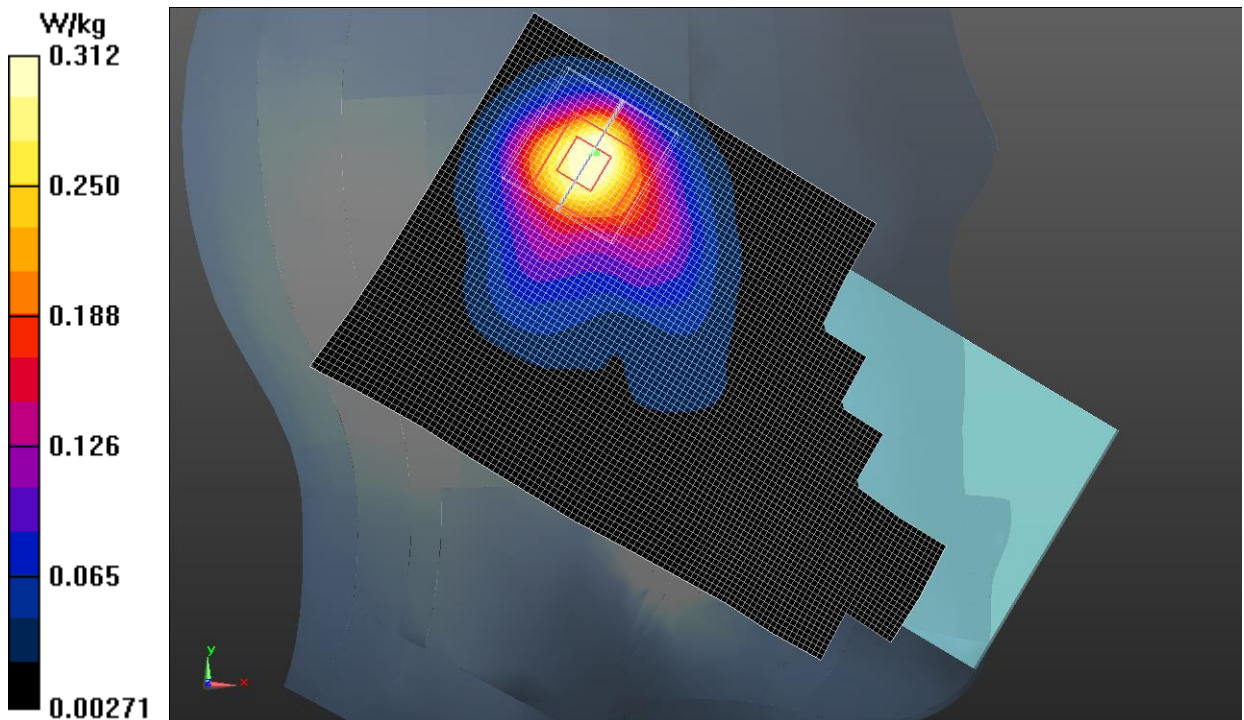
Left Cheek Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.784 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 0.312 W/kg



WIFI 2.4G Body

Date: 2018-4-8

Electronics: DAE4 Sn786

Medium: Body 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 52.426$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C

Communication System: UID 0, WiFi (0) Frequency: 2437 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.46, 4.46, 4.46);

Rear Side Mid/Area Scan (71x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.126 W/kg

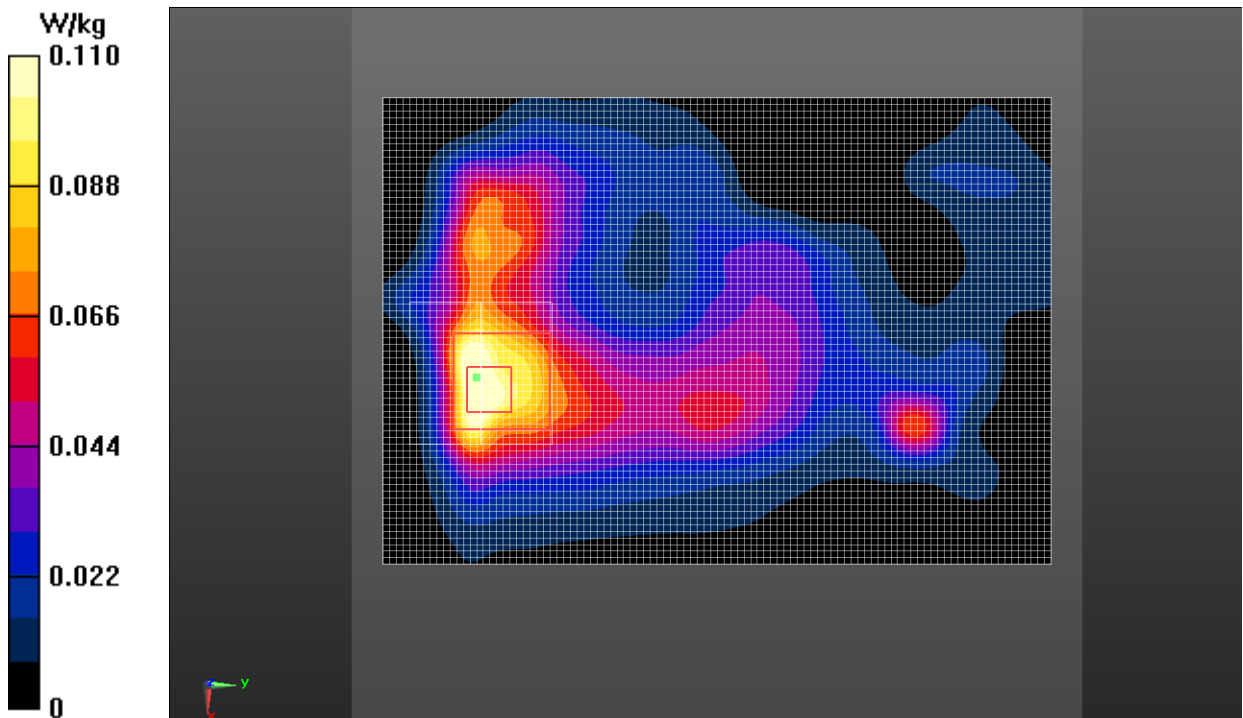
Rear Side Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.699 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.110 W/kg



ANNEX L System Verification Results for Spot Check Test

835MHz

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Head 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 40.544$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 – SN3151 ConvF (6.47, 6.47, 6.47);

System Validation /Area Scan (81x161x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 55.214 V/m ; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (interpolated) = 2.53 W/kg

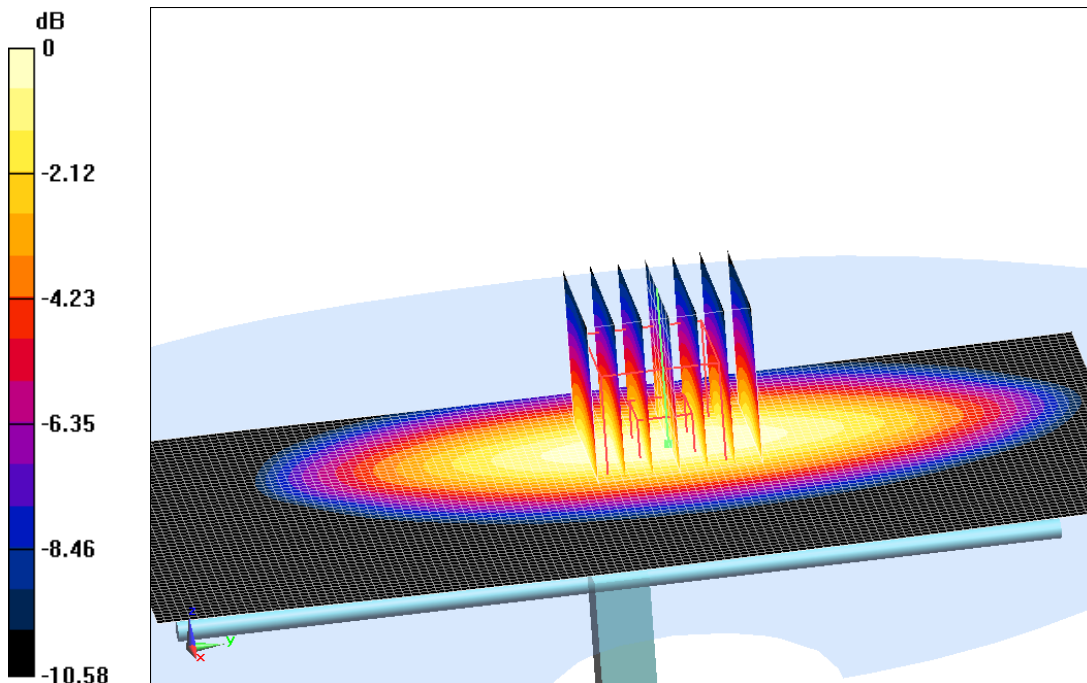
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.214 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.60 W/kg



0 dB = 2.60 W/kg = 4.15 dB W/kg

Fig.L.1. Validation 835MHz 250mW

835MHz

Date: 2018-4-4

Electronics: DAE4 Sn786

Medium: Body 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.963 \text{ S/m}$; $\epsilon_r = 54.058$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 – SN3151 ConvF (6.38, 6.38, 6.38);

System Validation /Area Scan (81x171x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 56.004 V/m ; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 2.34 W/kg ; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (interpolated) = 2.50 W/kg

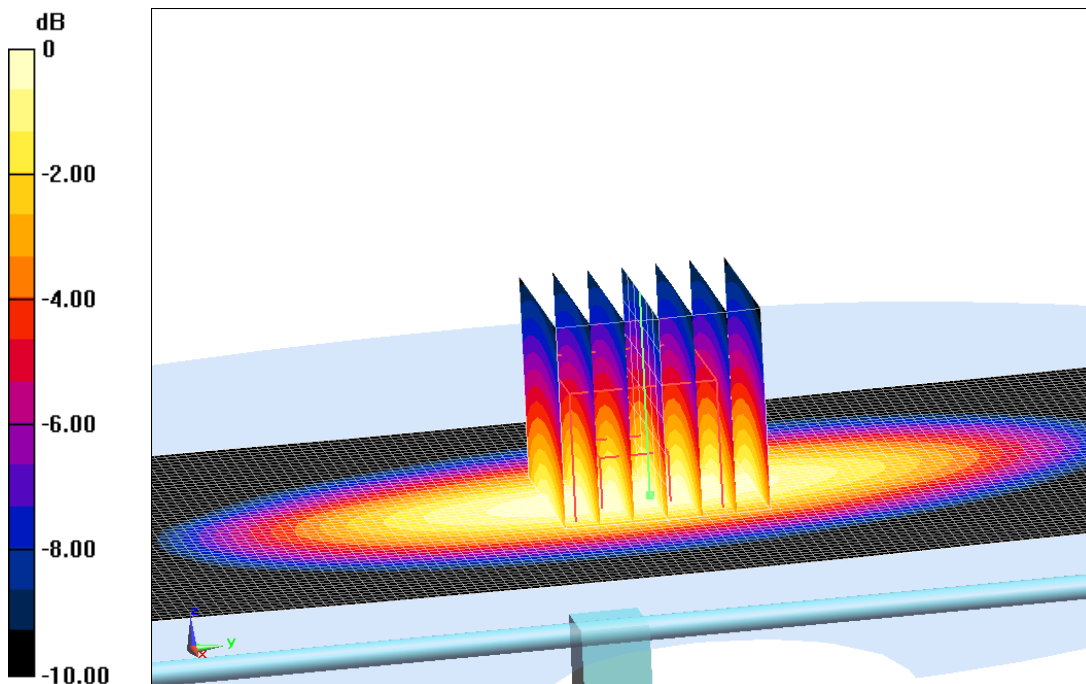
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.004 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 2.29 W/kg ; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.47 W/kg



0 dB = 2.47 W/kg = 3.93 dB W/kg

Fig.L.2. Validation 835MHz 250mW

1800MHz

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.414 \text{ S/m}$; $\epsilon_r = 39.522$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: CW Frequency: 1800 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (5.27, 5.27, 5.27);

System Validation/Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 80.854 V/m ; Power Drift = 0.09 dB

Fast SAR: SAR(1 g) = 9.91 W/kg ; SAR(10 g) = 5.20 W/kg

Maximum value of SAR (interpolated) = 12.2 W/kg

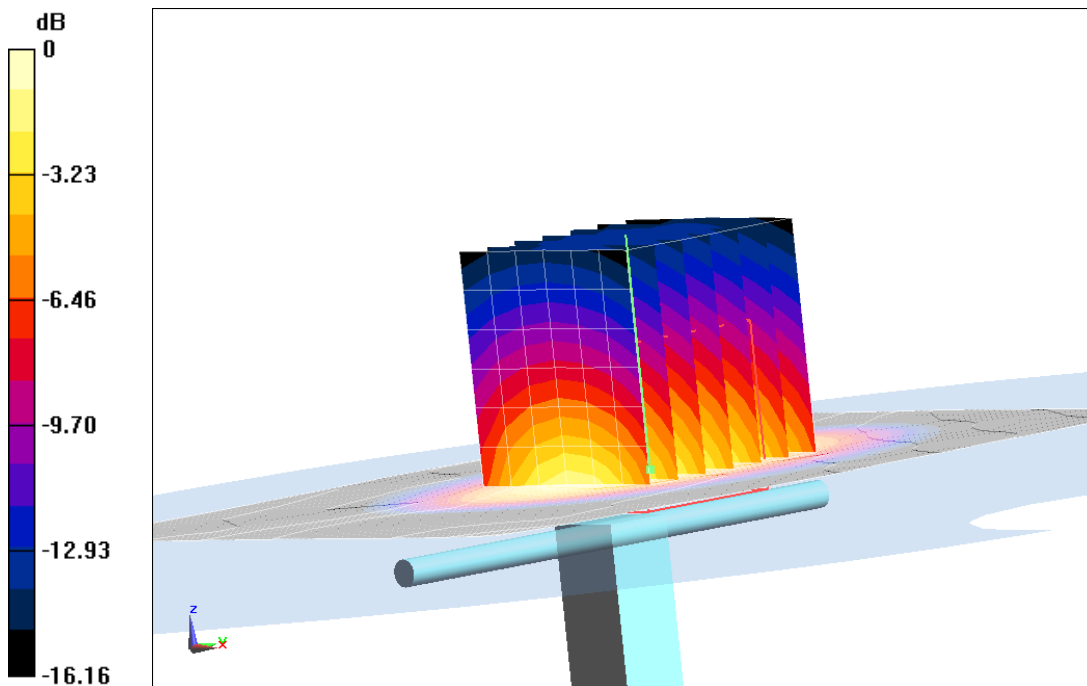
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 80.854 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 20.2 W/kg

SAR(1 g) = 9.96 W/kg ; SAR(10 g) = 5.25 W/kg

Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg = 11.06 dB W/kg

Fig.L.3. Validation 1800MHz 250mW

1800MHz

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.515 \text{ S/m}$; $\epsilon_r = 52.371$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.0°C Liquid Temperature: 21.5°C

Communication System: CW Frequency: 1800 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (5.11, 5.11, 5.11);

System Validation/Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 77.648 V/m ; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 9.62 W/kg ; SAR(10 g) = 5.19 W/kg

Maximum value of SAR (interpolated) = 11.7 W/kg

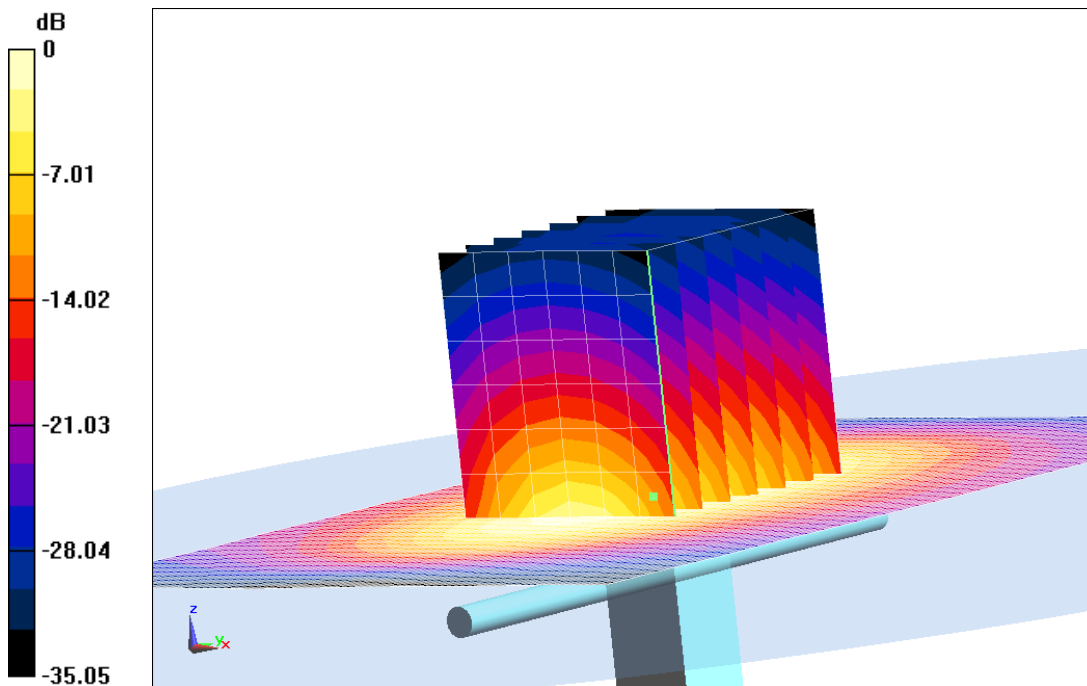
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 77.648 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.56 W/kg ; SAR(10 g) = 5.15 W/kg

Maximum value of SAR (measured) = 11.3 W/kg



0 dB = 11.3 W/kg = 10.53 dB W/kg

Fig.L.4. Validation 1800MHz 250mW

1900MHz

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 39.06$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 – SN3151 ConvF (5.09, 5.09, 5.09);

System Validation /Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 93.285 V/m; Power Drift = 0.12 dB

Fast SAR: SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.31 W/kg

Maximum value of SAR (interpolated) = 13.3 W/kg

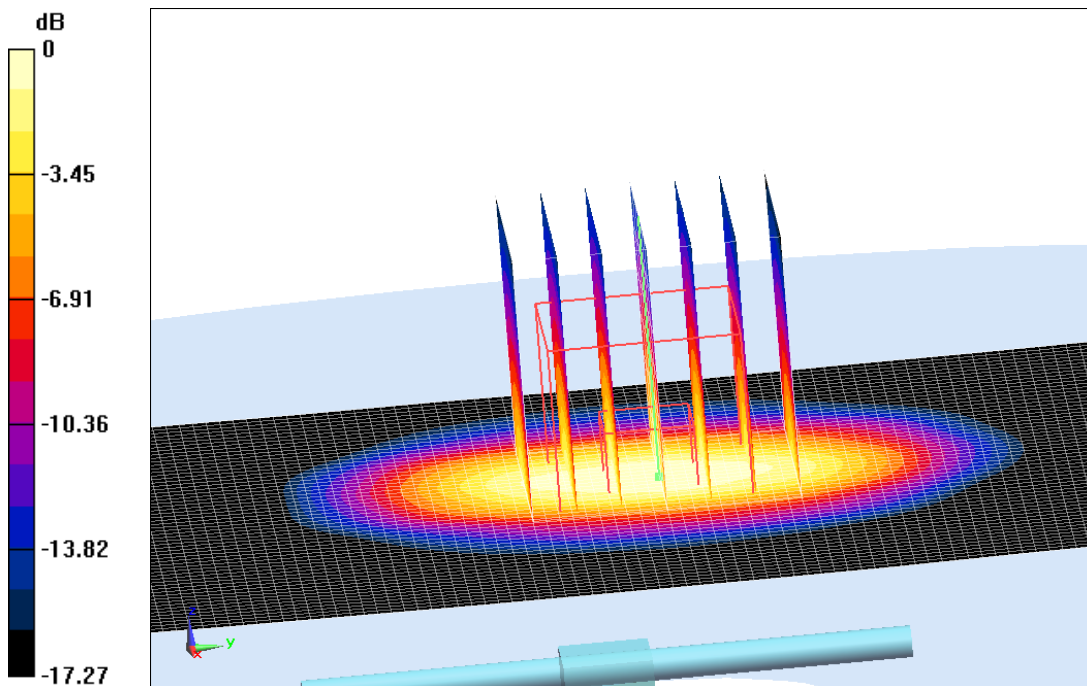
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.285 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 24.7 W/kg

SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.34 W/kg

Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg = 11.40 dB W/kg

Fig.L.5. Validation 1900MHz 250mW

1900MHz

Date: 2018-4-3

Electronics: DAE4 Sn786

Medium: Body 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.549$ S/m; $\epsilon_r = 51.838$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: ES3DV3 – SN3151 ConvF (4.89, 4.89, 4.89);

System validation /Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 80.284 V/m; Power Drift = 0.08 dB

Fast SAR: SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.37 W/kg

Maximum value of SAR (interpolated) = 12.9 W/kg

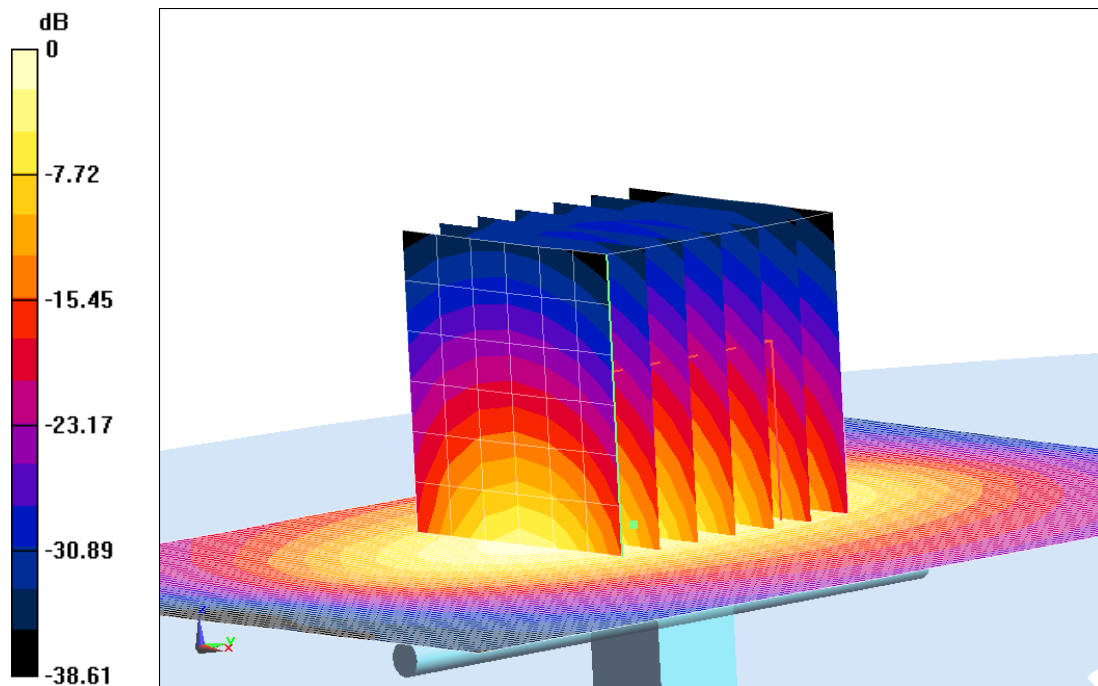
System validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.284 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 22.5 W/kg

SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.40 W/kg

Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg = 11.27 dB W/kg

Fig.L.6. Validation 1900MHz 250mW

2450MHz

Date: 2018-4-8

Electronics: DAE4 Sn786

Medium: Head 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.842$ S/m; $\epsilon_r = 38.389$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.6°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.57, 4.57, 4.57);

System Validation /Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 86.436 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 12.8 W/kg; SAR(10 g) = 6.01 W/kg

Maximum value of SAR (interpolated) = 15.2 W/kg

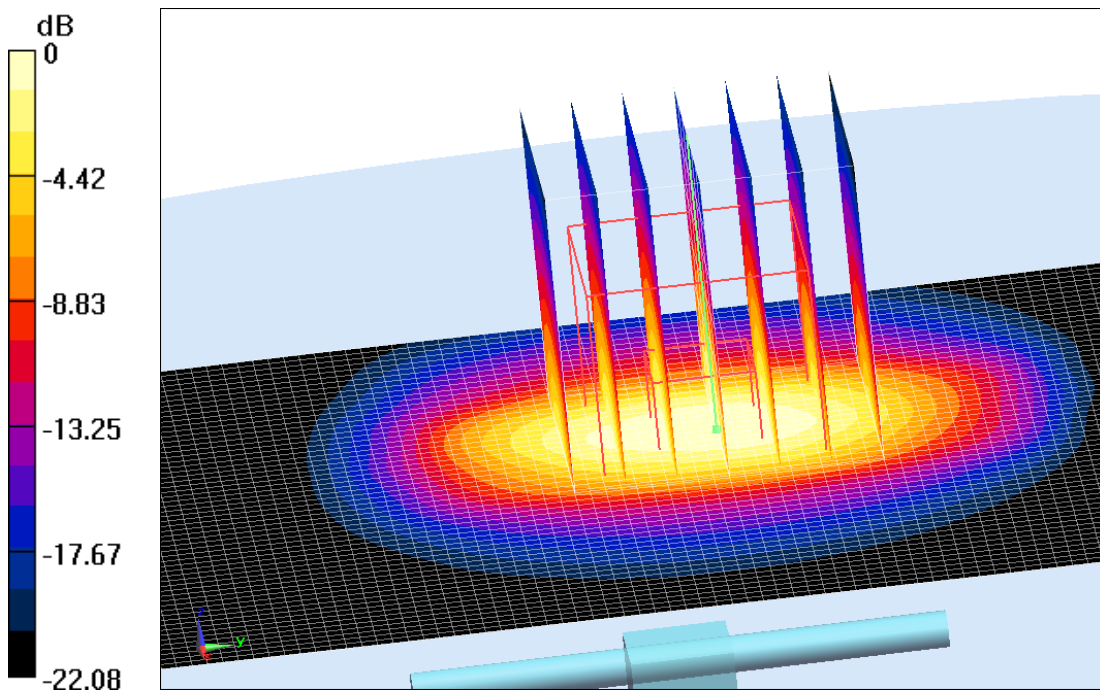
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.436 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 25.3 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.92 W/kg

Maximum value of SAR (measured) = 14.9 W/kg



0 dB = 14.9 W/kg = 11.73 dB W/kg

Fig.L.7. Validation 2450MHz 250mW

2450MHz

Date: 2018-4-8

Electronics: DAE4 Sn786

Medium: Body 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.985$ S/m; $\epsilon_r = 52.382$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.6°C

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.46, 4.46, 4.46);

System Validation/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 89.632 V/m; Power Drift = 0.07 dB

Fast SAR: SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.18 W/kg

Maximum value of SAR (interpolated) = 15.8 W/kg

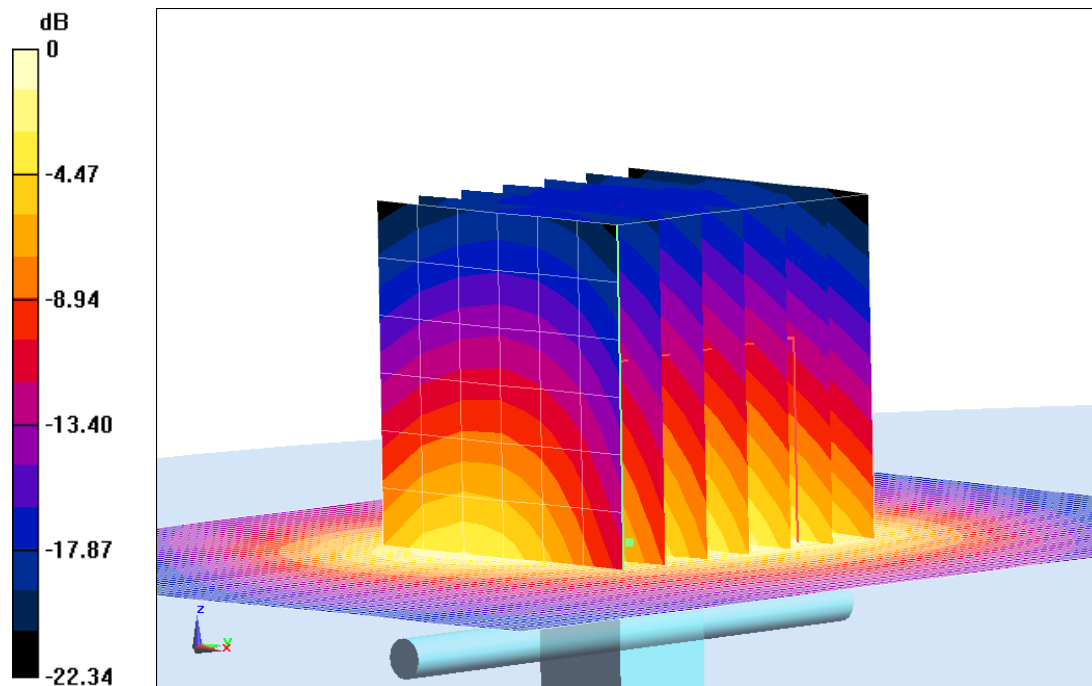
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.632 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.23 W/kg

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dB W/kg

Fig.L.8. Validation 2450MHz 250mW

2550MHz

Date: 2018-4-9

Electronics: DAE4 Sn786

Medium: Head 2550 MHz

Medium parameters used: $f = 2550 \text{ MHz}$; $\sigma = 1.965 \text{ S/m}$; $\epsilon_r = 38.147$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.0°C Liquid Temperature: 21.6°C

Communication System: CW Frequency: 2550 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.53, 4.53, 4.53);

System Validation/Area Scan (81x101x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 91.755 V/m ; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 14.3 W/kg ; SAR(10 g) = 6.52 W/kg

Maximum value of SAR (interpolated) = 16.2 W/kg

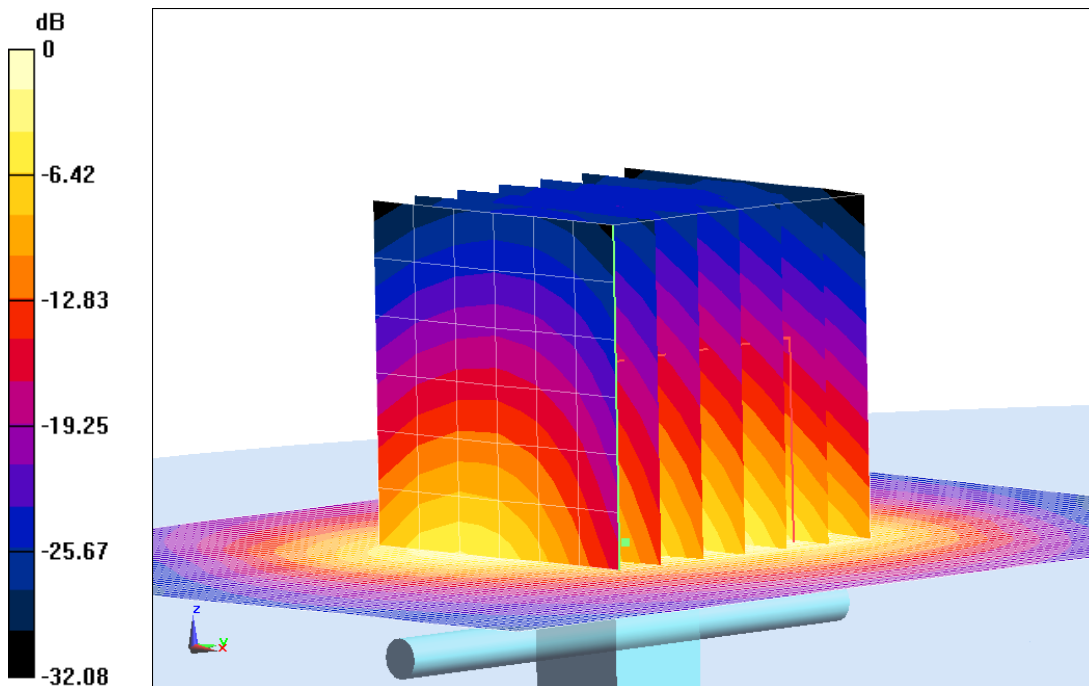
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 91.755 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 14.5 W/kg ; SAR(10 g) = 6.58 W/kg

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dB W/kg

Fig.L.9. Validation 2550MHz 250mW

2550MHz

Date: 2018-4-9

Electronics: DAE4 Sn786

Medium: Body 2550 MHz

Medium parameters used: $f = 2550$ MHz; $\sigma = 2.113$ S/m; $\epsilon_r = 52.073$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.0°C Liquid Temperature: 21.6°C

Communication System: CW Frequency: 2550 MHz Duty Cycle: 1:1

Probe: ES3DV3 – SN3151 ConvF (4.24, 4.24, 4.24);

System Validation/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 86.954 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.26 W/kg

Maximum value of SAR (interpolated) = 15.7 W/kg

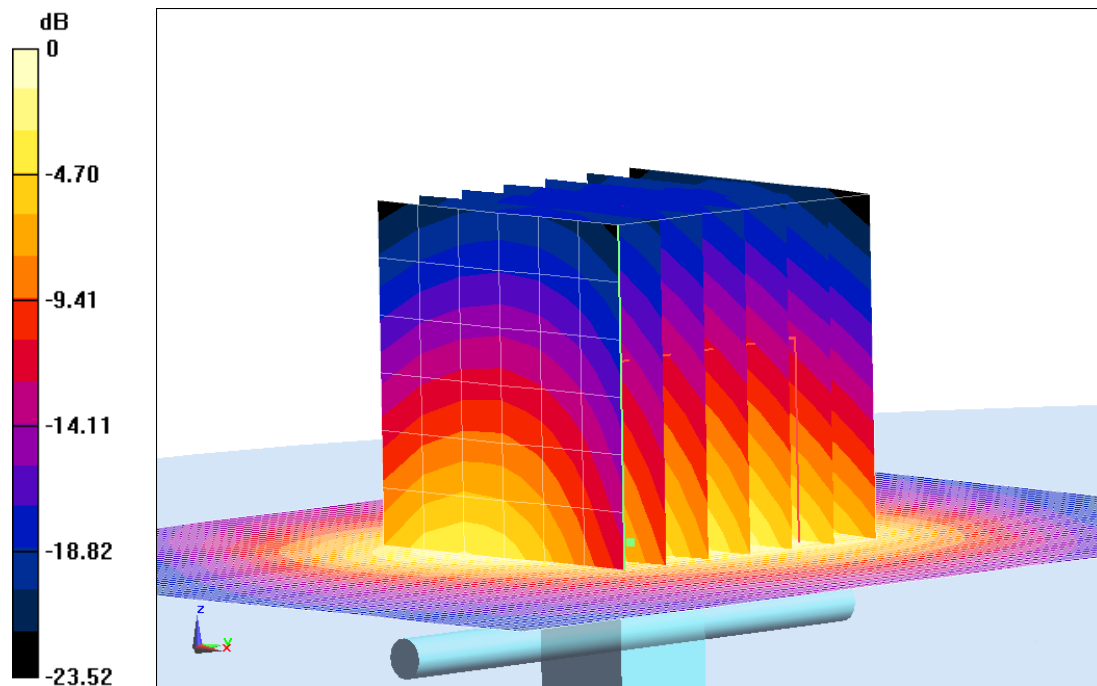
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.954 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.22 W/kg

Maximum value of SAR (measured) = 15.2 W/kg



0 dB = 15.2 W/kg = 11.82 dB W/kg

Fig.L.10. Validation 2550MHz 250mW