

Plot 48 UMTS Band IV Back Side Middle (Distance 10mm, State2)

Date: 12/10/2016

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

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 51.657$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.00, 5.00, 5.00); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.431 W/kg

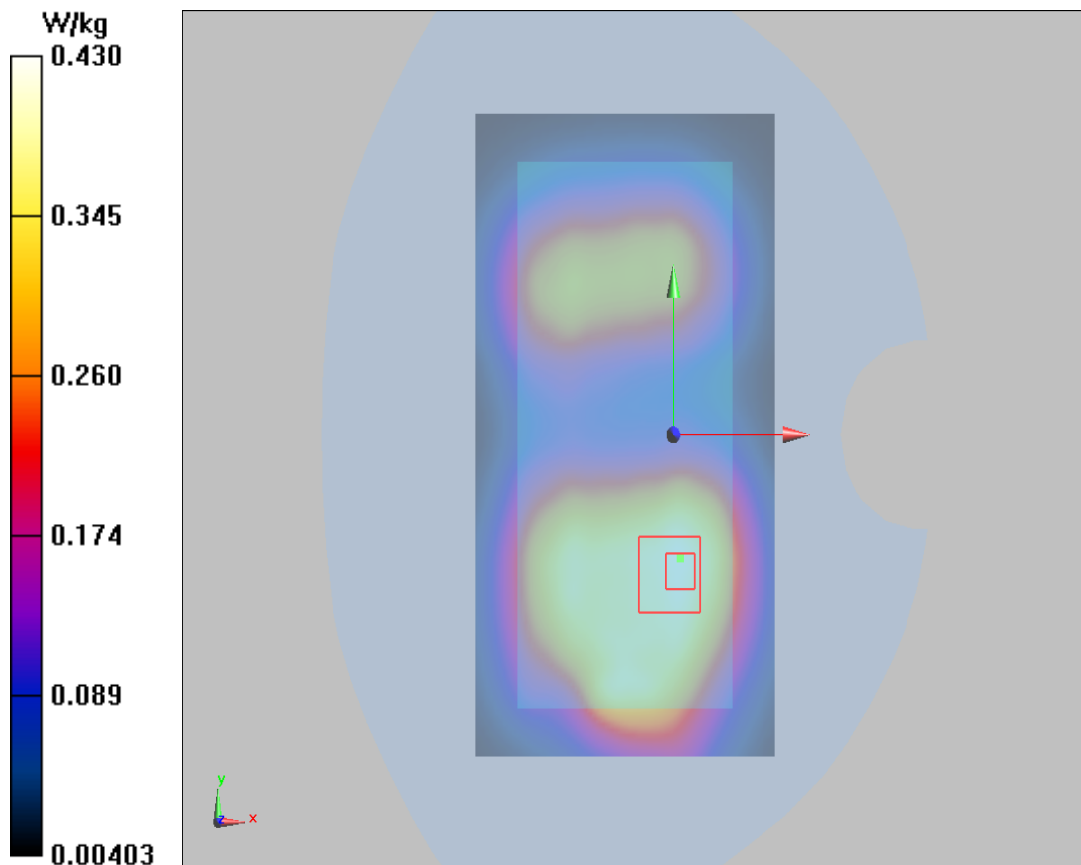
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.794 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.579 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.266 W/kg

Maximum value of SAR (measured) = 0.430 W/kg



Plot 49 UMTS Band V Right Cheek Middle (Battery 3)

Date: 11/24/2016

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.514$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(6.22, 6.22, 6.22); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.361 W/kg

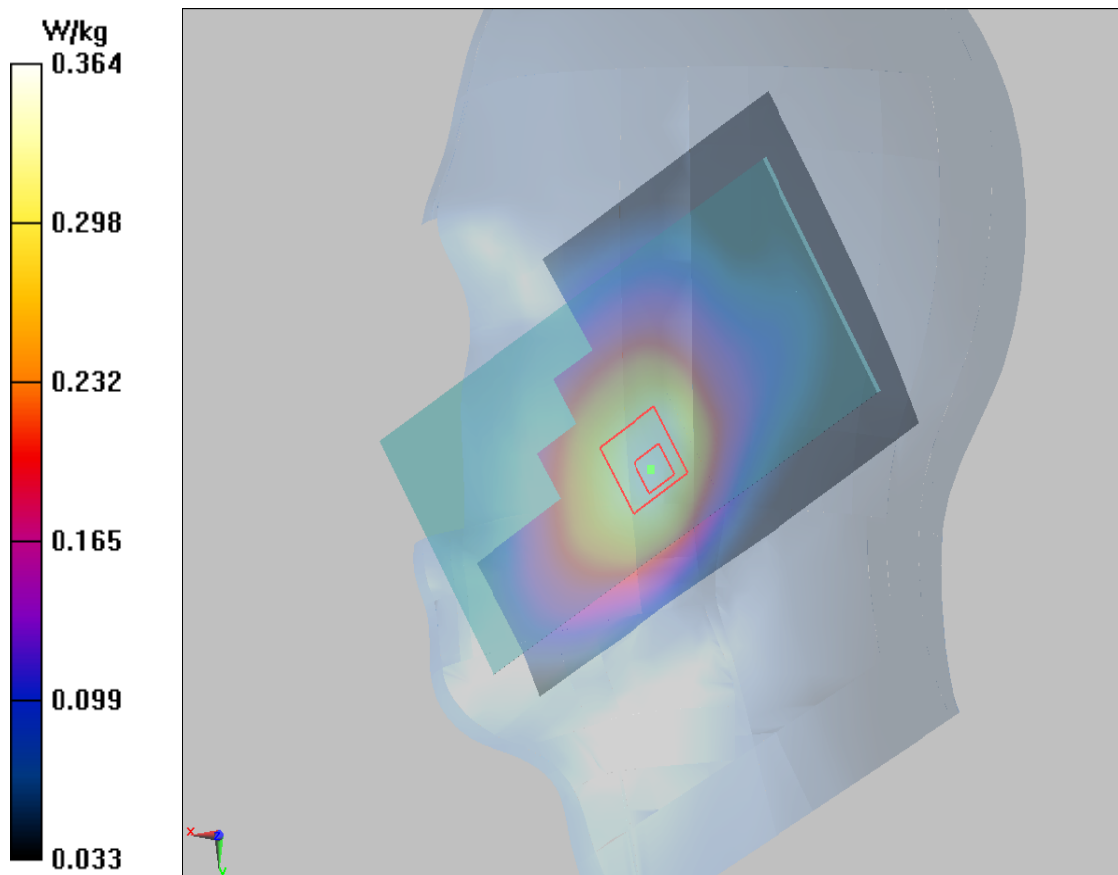
Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.839 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.257 W/kg

Maximum value of SAR (measured) = 0.364 W/kg



Plot 50 UMTS Band V Back Side Middle (Distance 15mm)

Date: 11/22/2016

Communication System: UID 0, WCDMA Band V (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.244 W/kg

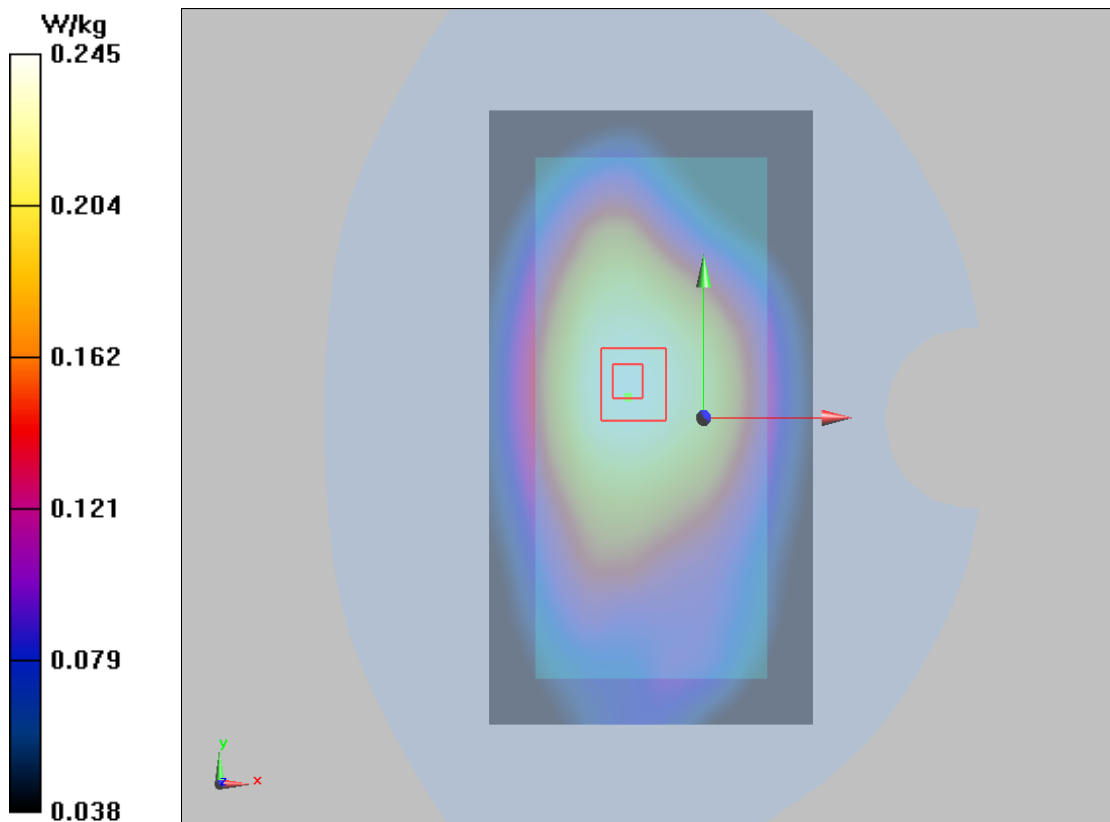
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.27 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.245 W/kg



Plot 51 UMTS Band V Back Side Middle (Distance 10mm)

Date: 11/22/2016

Communication System: UID 0, WCDMA Band V (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.374 W/kg

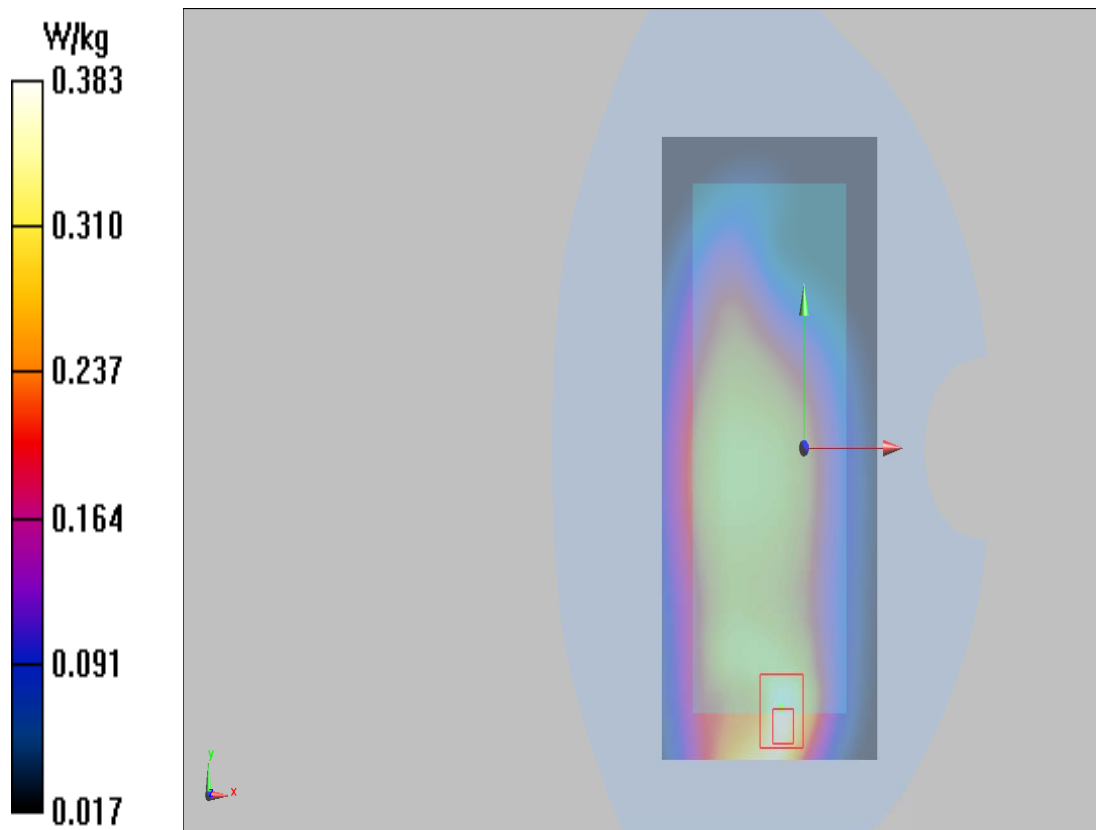
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.21 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.605 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.383 W/kg



Plot 52 LTE Band 2 1RB Right Cheek High (Battery3, State2)

Date: 12/22/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.008$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.09, 5.09, 5.09); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

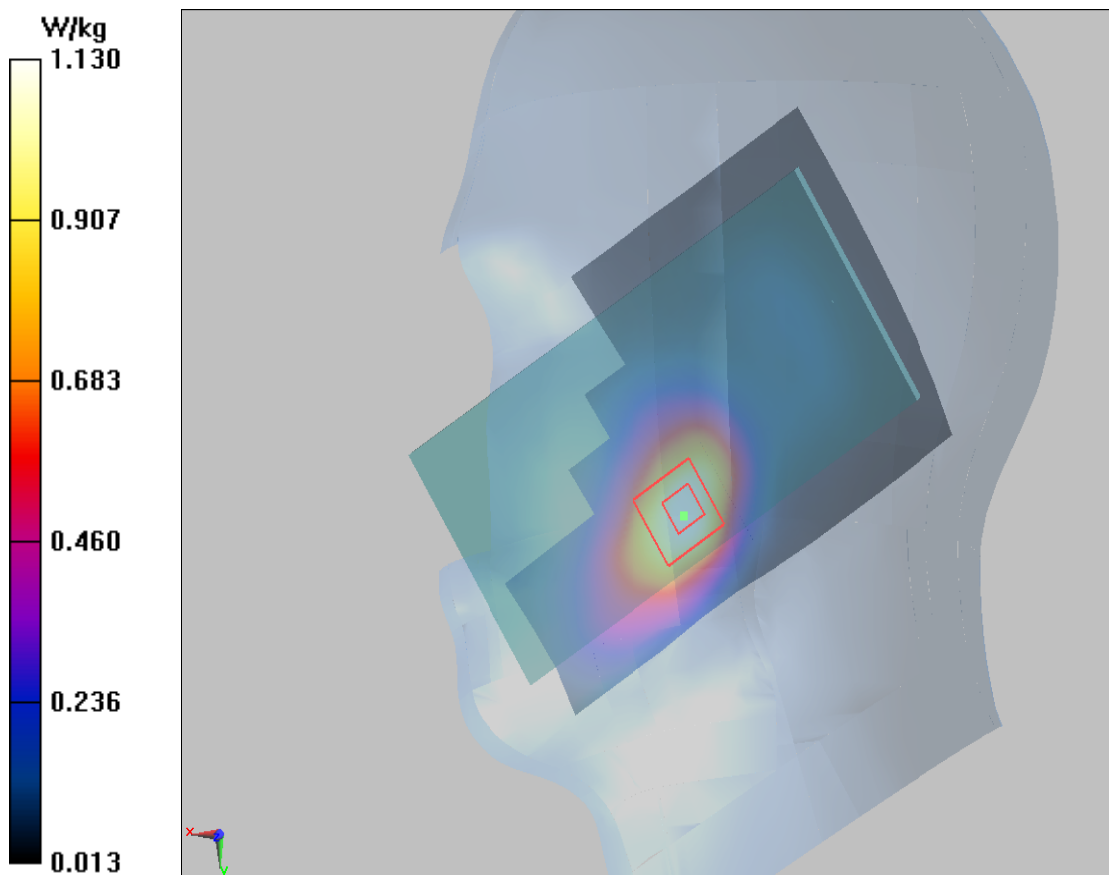
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.417 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 1.10 W/kg; SAR(10 g) = 0.649 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



Plot 53 LTE Band 2 1RB Back Side Middle (Distance 15mm, State2)

Date: 2016/12/8

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 51.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP: 1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.511 W/kg

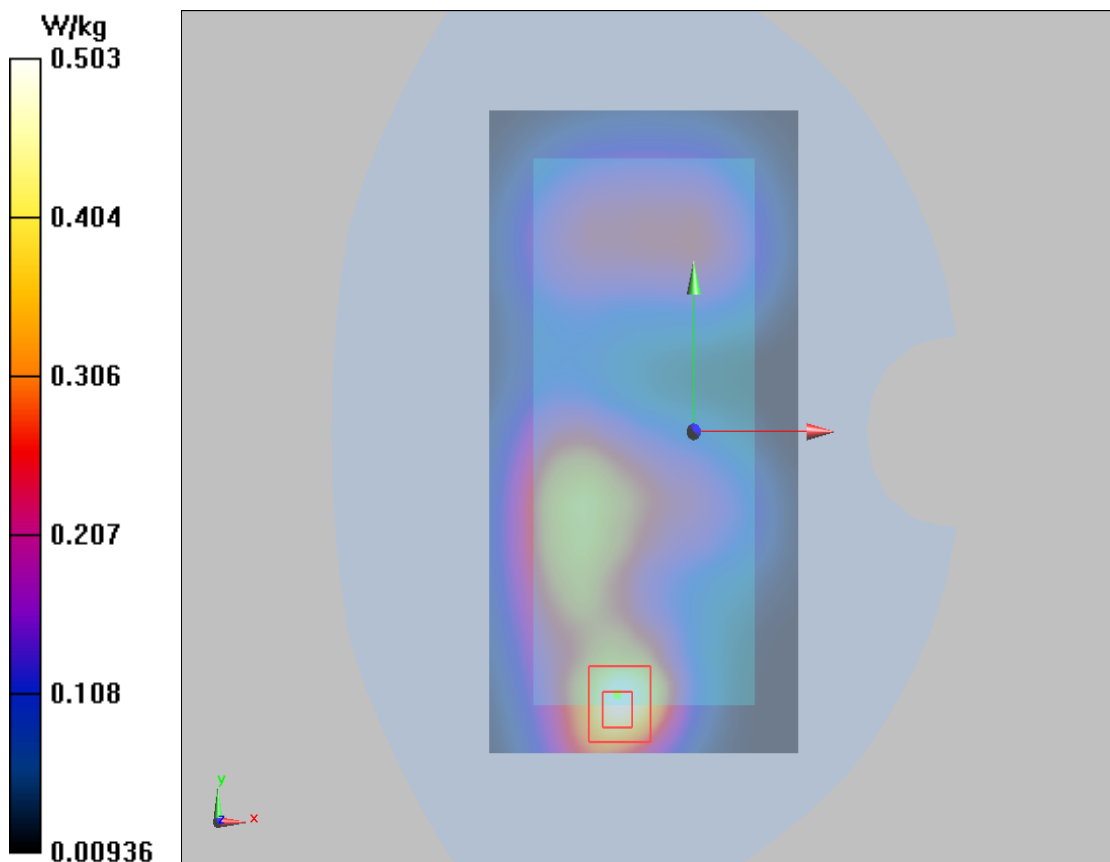
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.10 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.783 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 0.503 W/kg



Plot 54 LTE Band 2 1RB Back Side High (Distance 10mm, State2)

Date: 2016/12/8

Communication System: UID 0, LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.493$ S/m; $\epsilon_r = 51.566$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.989 W/kg

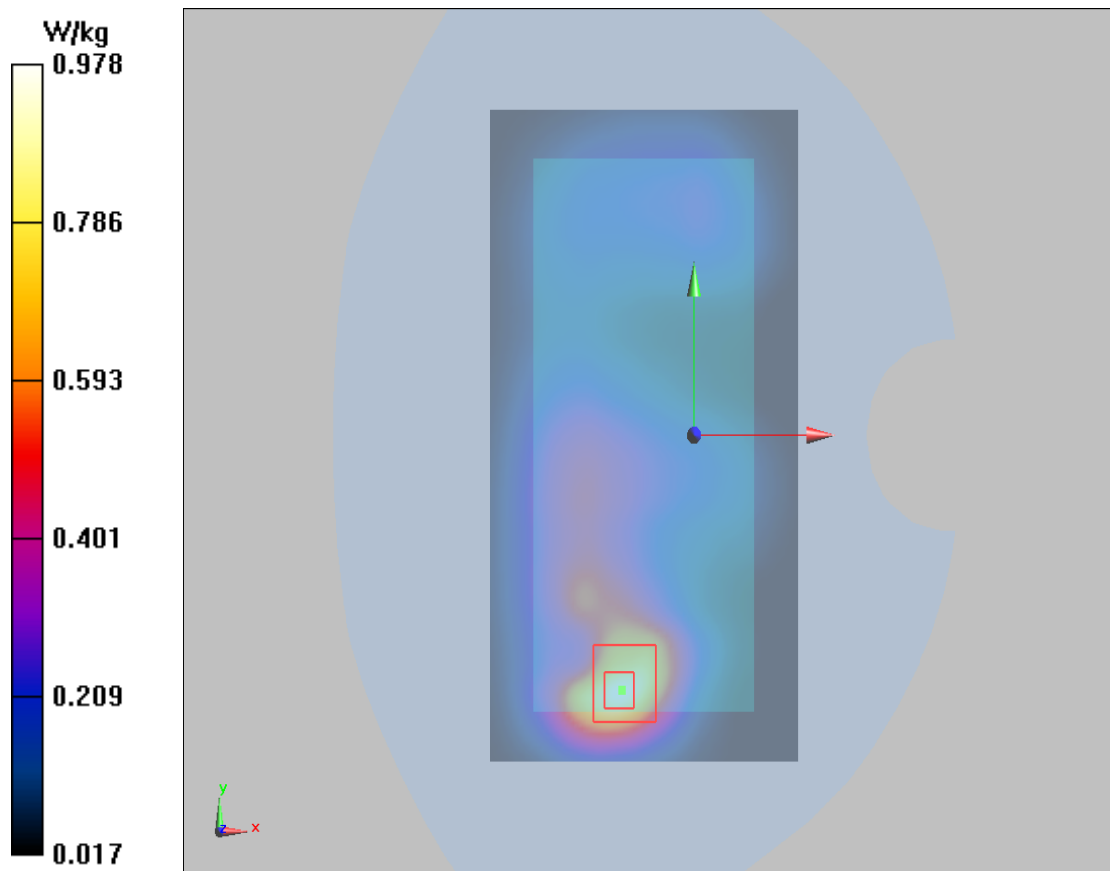
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.12 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.475 W/kg

Maximum value of SAR (measured) = 0.978 W/kg



Plot 55 LTE Band 4 1RB Right Cheek High (State2)

Date: 12/11/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 38.592$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.32, 5.32, 5.32); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.472 W/kg

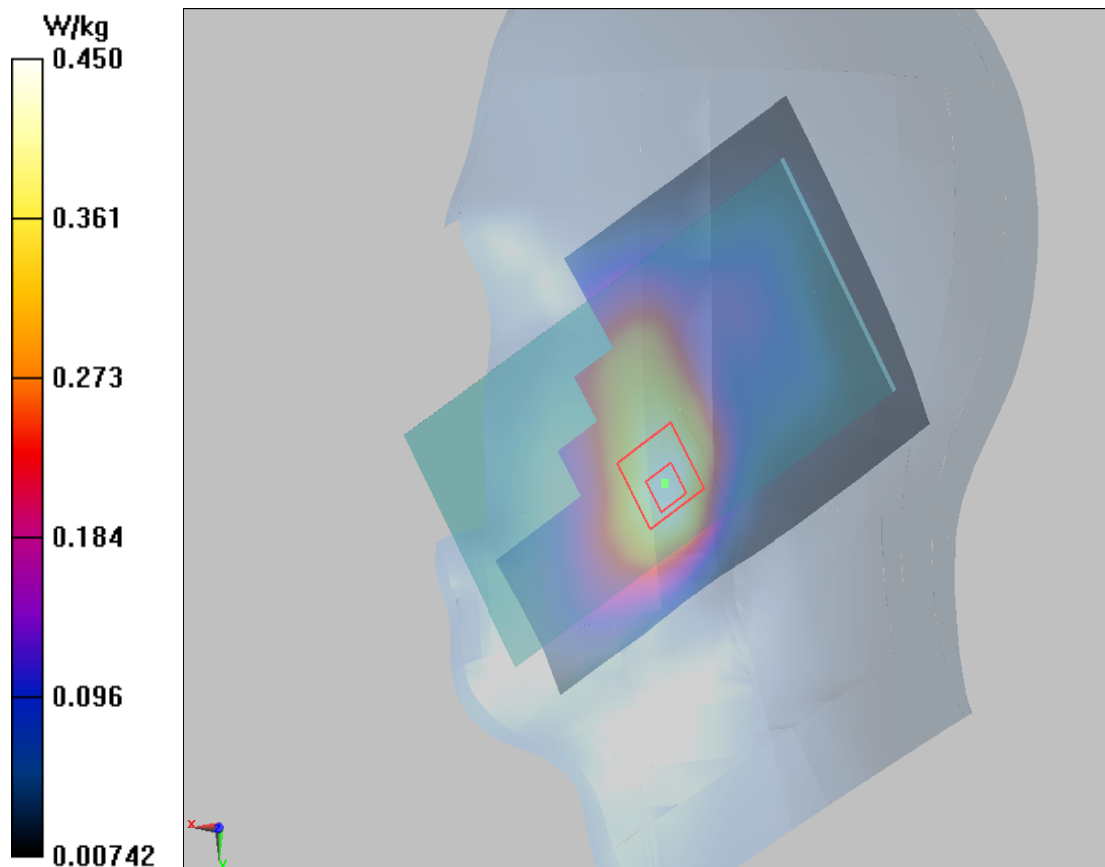
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.986 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.609 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.274 W/kg

Maximum value of SAR (measured) = 0.450 W/kg



Plot 56 LTE Band 4 1RB Back Side High (Distance 15mm, State2)

Date: 12/10/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 51.692$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.00, 5.00, 5.00); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.273 W/kg

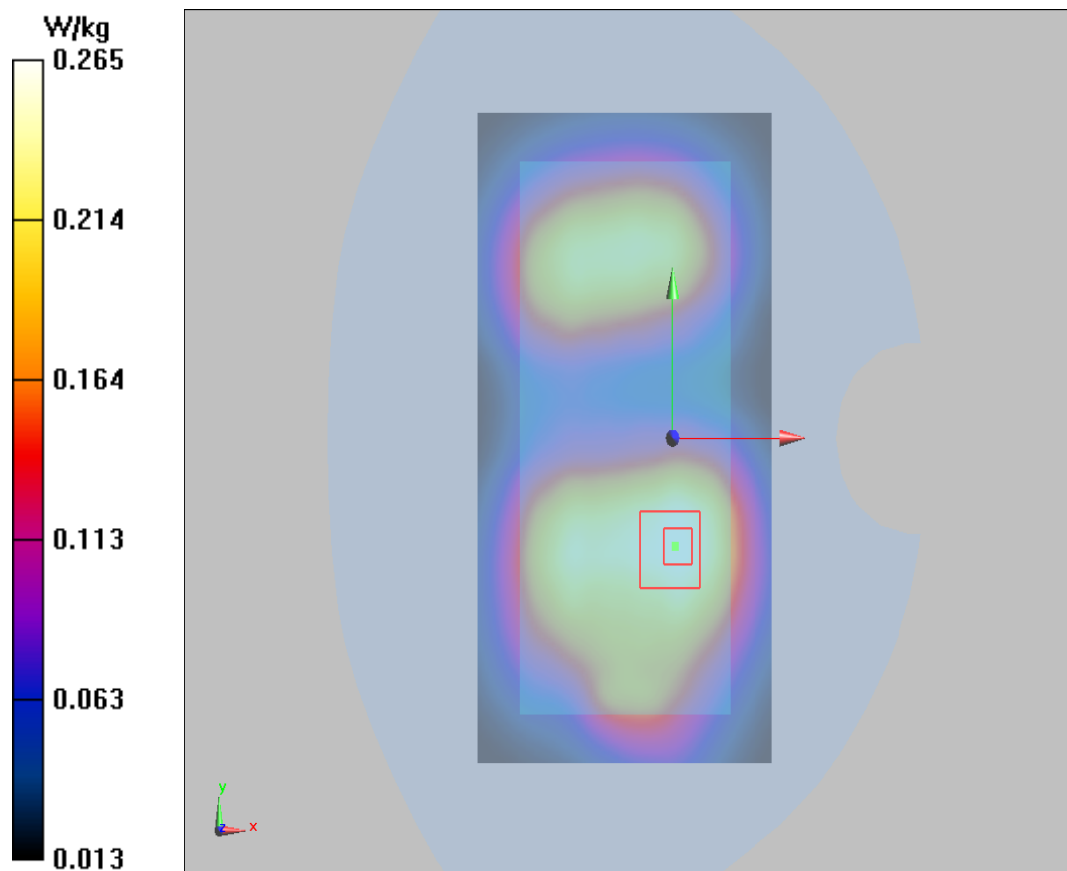
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.249 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.265 W/kg



Plot 57 LTE Band 4 1RB Back Side High (Distance 10mm, State2)

Date: 12/10/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 51.692$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.00, 5.00, 5.00); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.421 W/kg

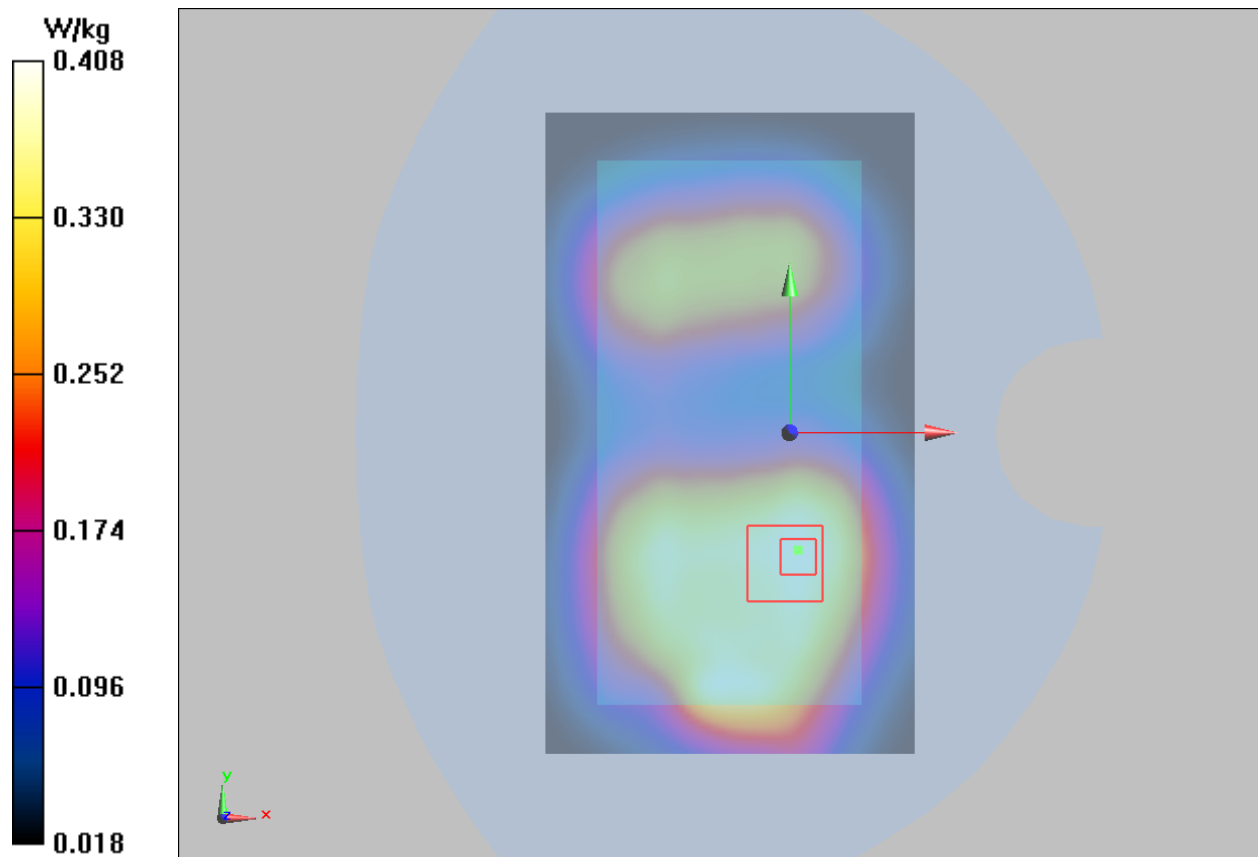
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.132 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.258 W/kg

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



Plot 58 LTE Band 5 1RB Right Cheek High (Battery 2)

Date: 11/24/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 41.913$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(6.22, 6.22, 6.22); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.352 W/kg

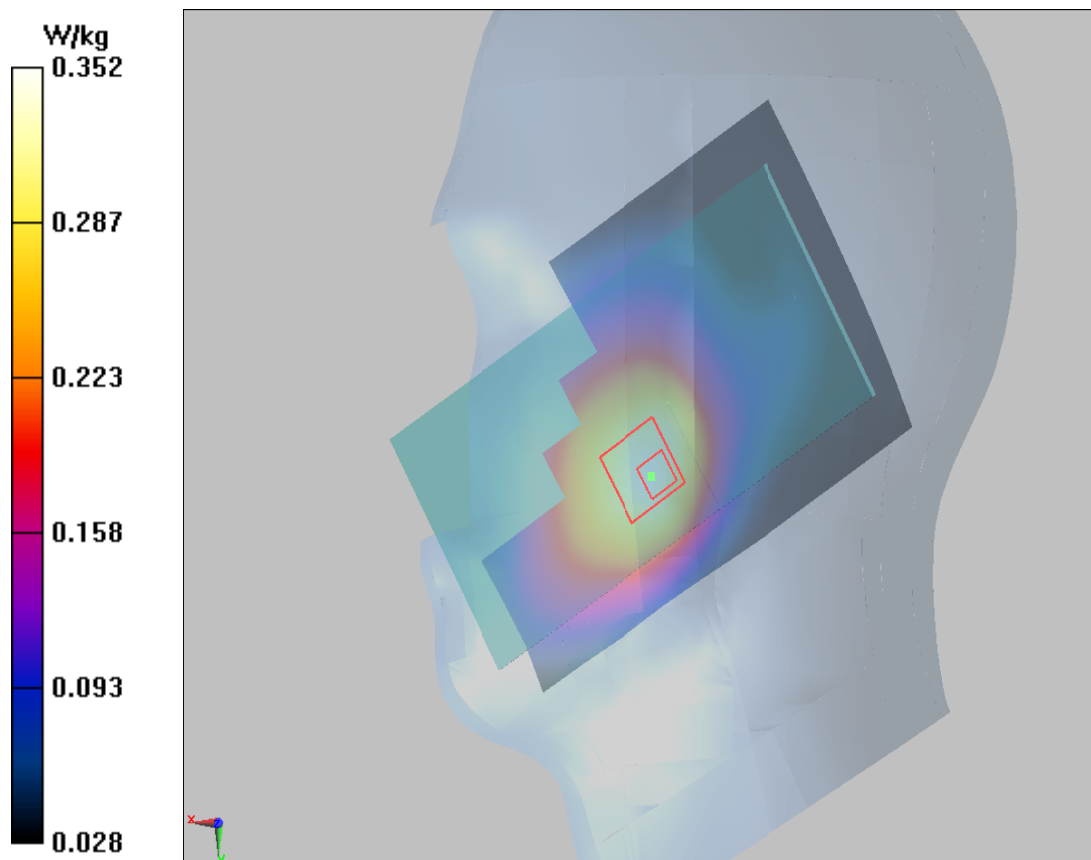
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.099 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.336 W/kg ; SAR(10 g) = 0.244 W/kg

Maximum value of SAR (measured) = 0.352 W/kg



Plot 59 LTE Band 5 1RB Back Side High (Distance 15mm)

Date: 11/22/2016

Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 1.035 \text{ S/m}$; $\epsilon_r = 55.274$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.283 W/kg

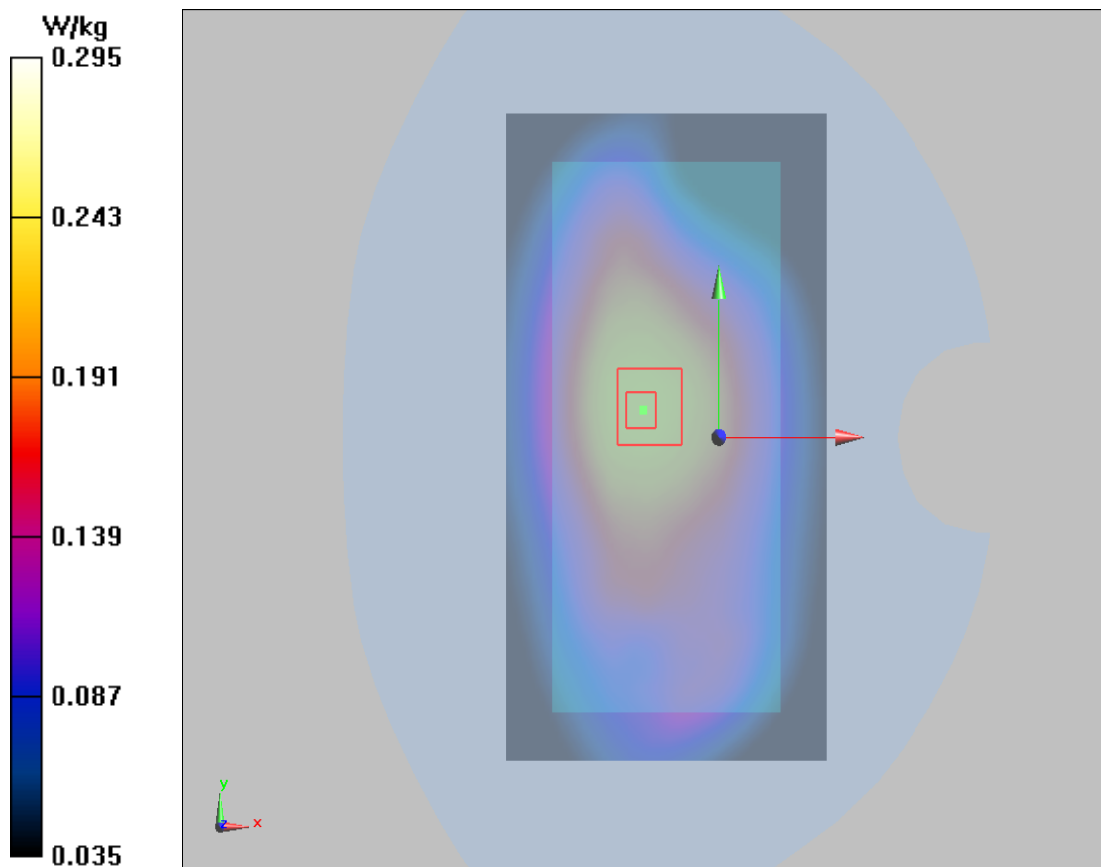
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.83 V/m ; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.240 W/kg ; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 0.295 W/kg



Plot 60 LTE Band 5 1RB Back Side High (Distance 10mm, Battery 2)

Date: 11/22/2016

Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 1.035 \text{ S/m}$; $\epsilon_r = 55.274$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.356 W/kg

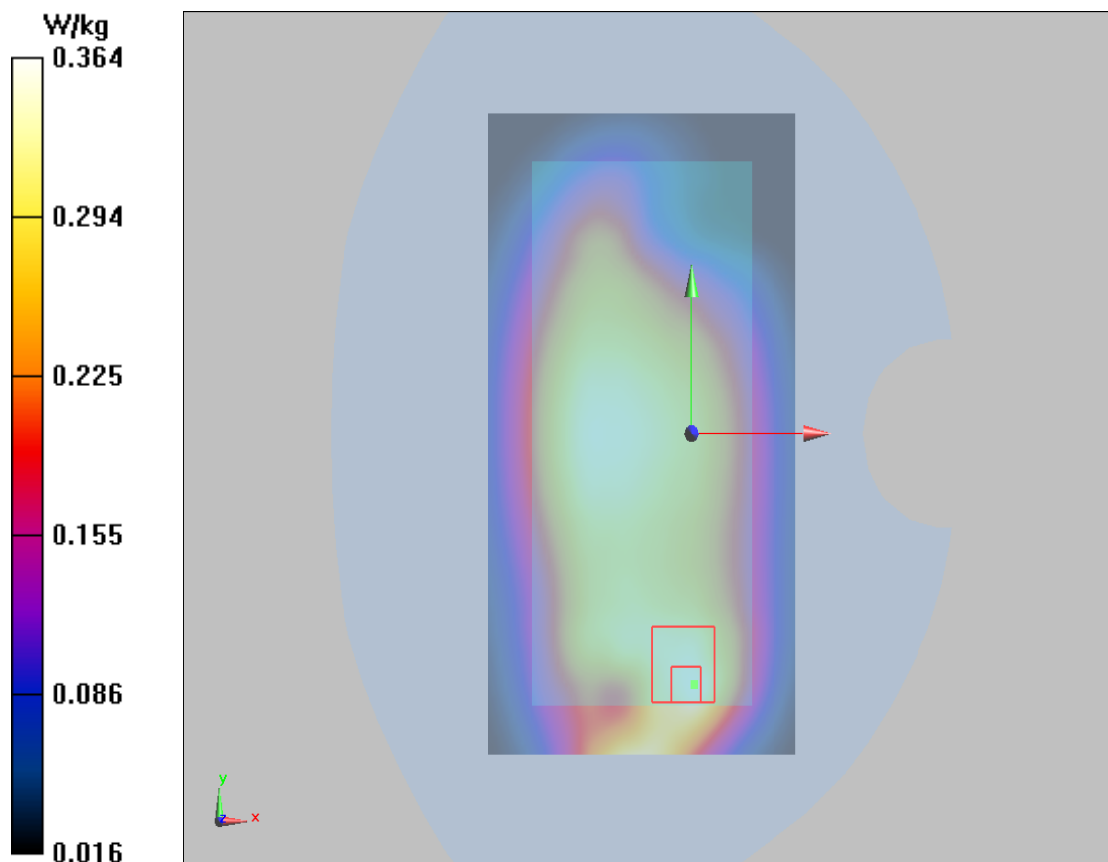
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.55 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.336 W/kg ; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 0.364 W/kg



Plot 61 LTE Band 7 1RB Right Cheek Middle (SIM 2, State1)

Date: 12/20/2016

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

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.983$ S/m; $\epsilon_r = 39.559$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.25, 4.25, 4.25); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek Middle/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.406 W/kg

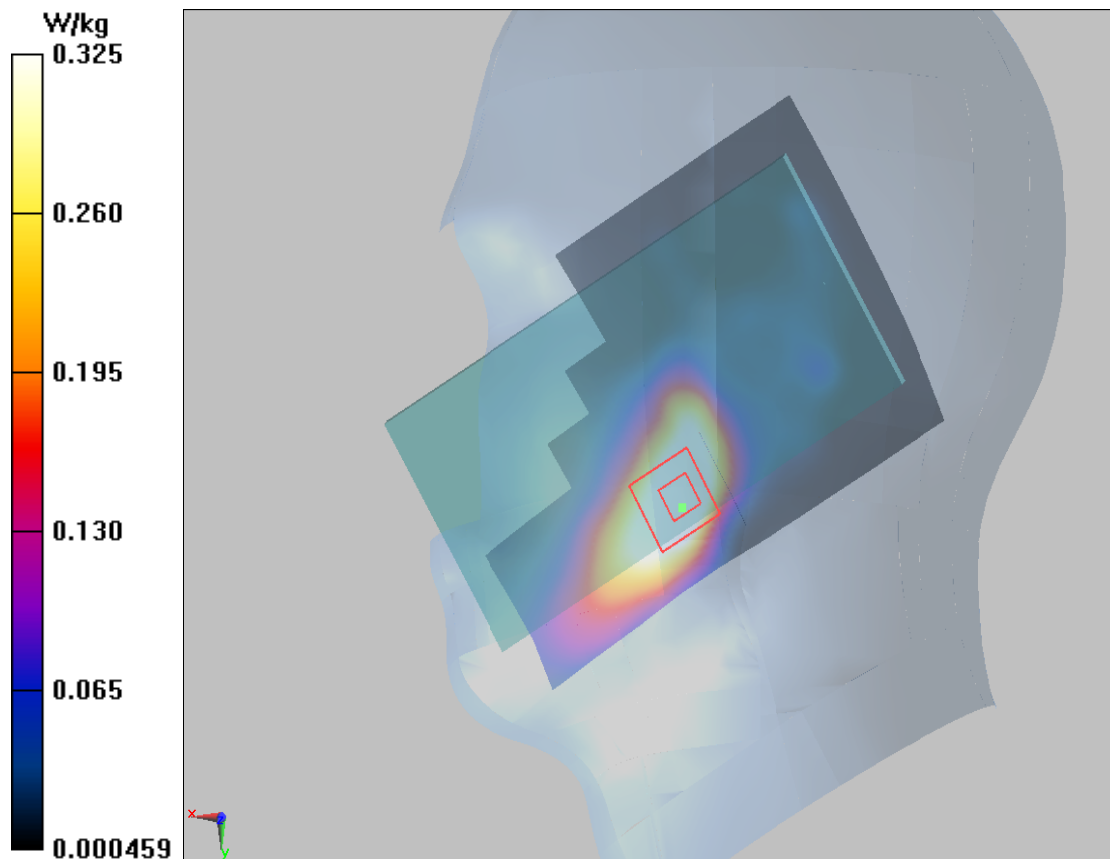
Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.075 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.550 W/kg

SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 0.325 W/kg



Plot 62 LTE Band 7 1RB Back Side Middle (Distance 15mm, State1)

Date: 12/14/2016

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

Medium parameters used: $f = 2535$ MHz; $\sigma = 2.057$ S/m; $\epsilon_r = 53.424$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.21, 4.21, 4.21); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.231 W/kg

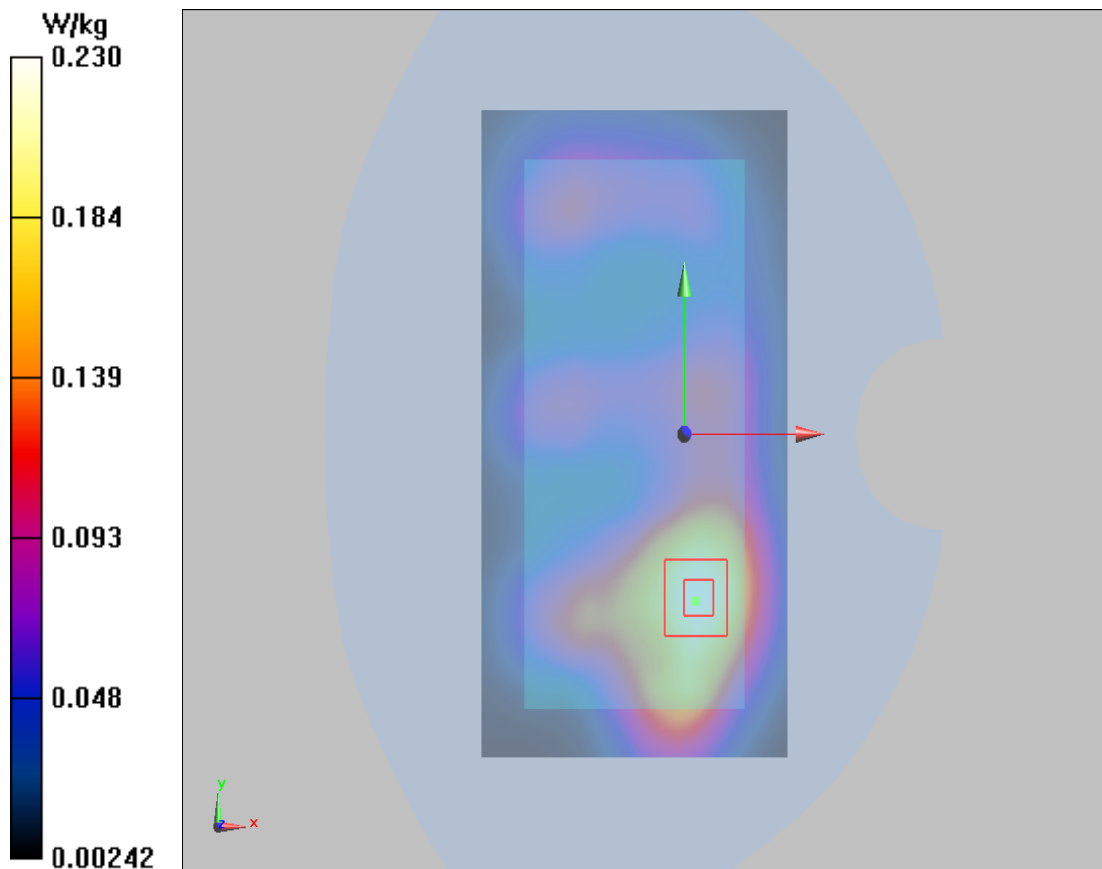
Back Side Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.495 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.230 W/kg



Plot 63 LTE Band 7 Front Side Middle (Distance 10mm, State1)

Date: 12/14/2016

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

Medium parameters used: $f = 2535$ MHz; $\sigma = 2.057$ S/m; $\epsilon_r = 53.424$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.21, 4.21, 4.21); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side Middle/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.326 W/kg

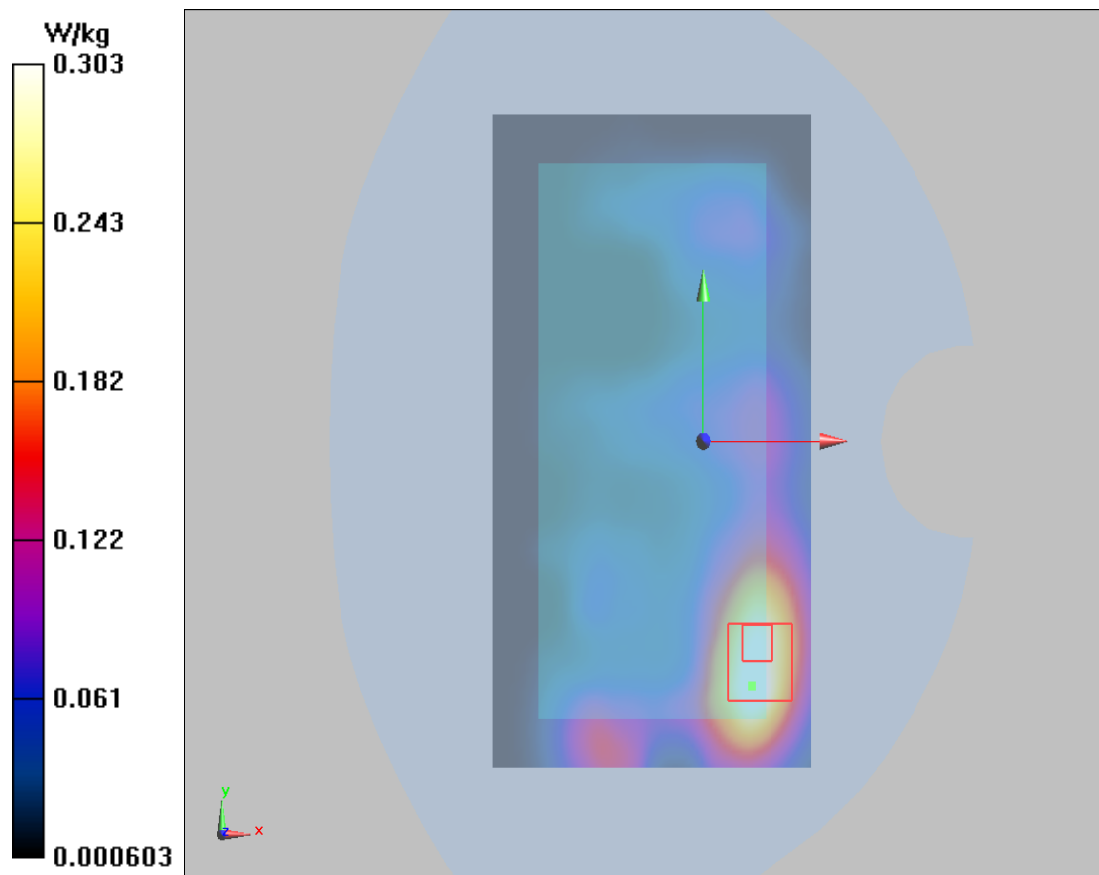
Front Side Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.415 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.303 W/kg



Plot 64 LTE Band 12 1RB Right Cheek High (Battery3)

Date: 11/30/2016

Communication System: UID 0, LTE (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.864$ S/m; $\epsilon_r = 41.328$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (6.63, 6.63, 6.63); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.157 W/kg

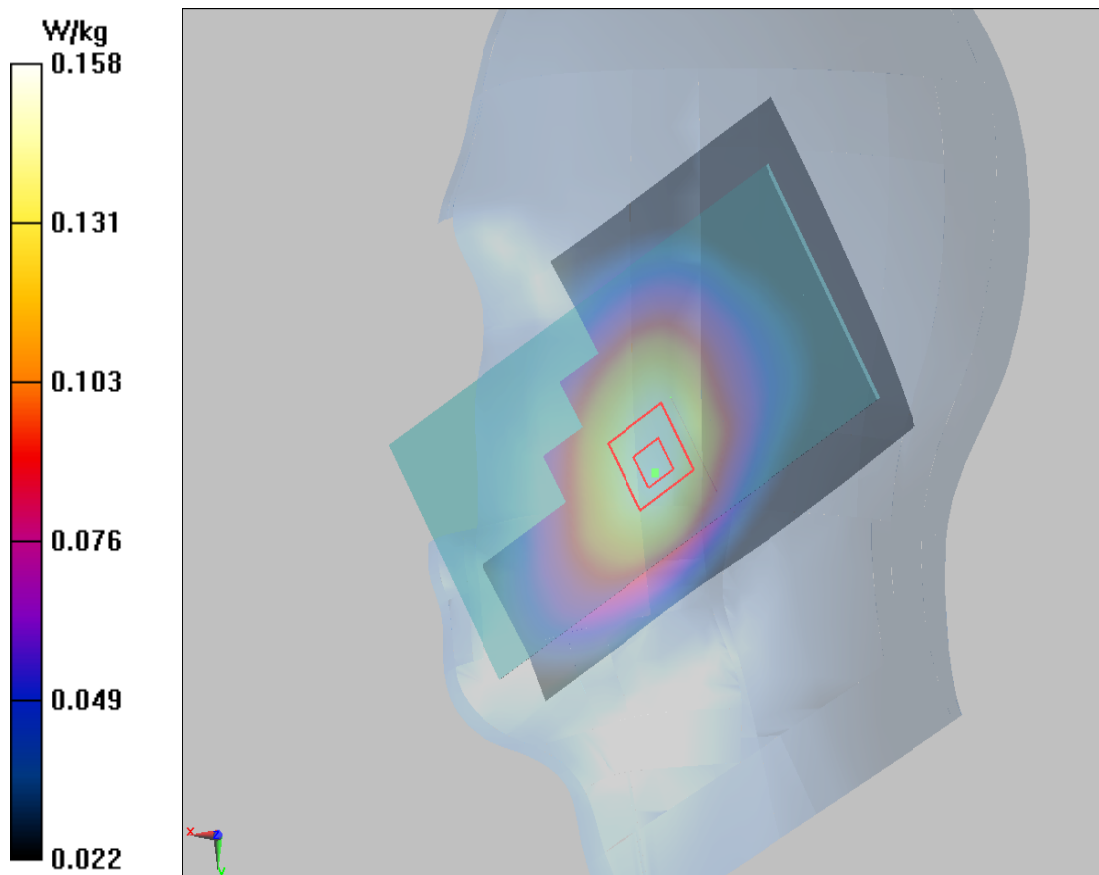
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.024 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.158 W/kg



Plot 65 LTE Band 12 1RB Back Side High (Distance 15mm)

Date: 11/21/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 57.243$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.83, 5.83, 5.83); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.179 W/kg

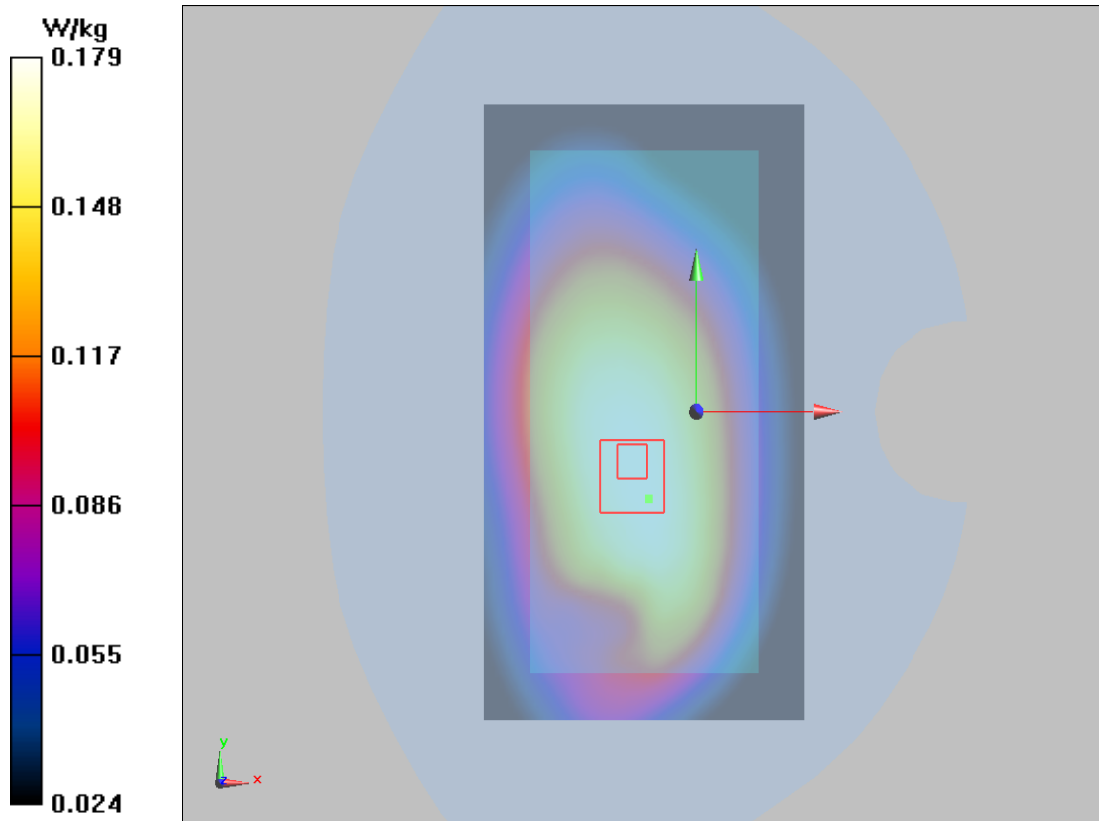
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.28 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.179 W/kg



Plot 66 LTE Band 12 1RB Back Side High (Distance 10mm)

Date: 11/21/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 57.243$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.83, 5.83, 5.83); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.231 W/kg

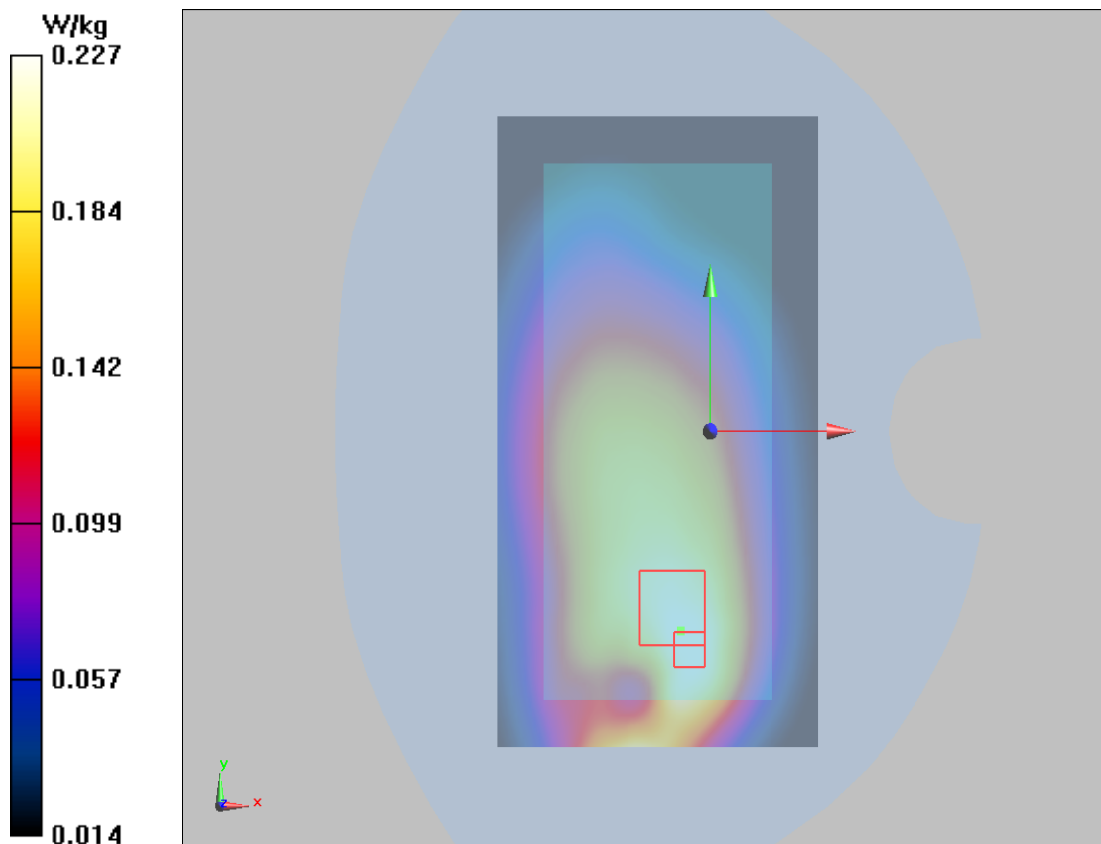
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.91 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 0.227 W/kg



Plot 67 LTE Band 17 1RB Right Tilt Middle

Date: 11/20/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.861 \text{ S/m}$; $\epsilon_r = 41.632$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(6.63, 6.63, 6.63); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Tilt Middle/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.125 W/kg

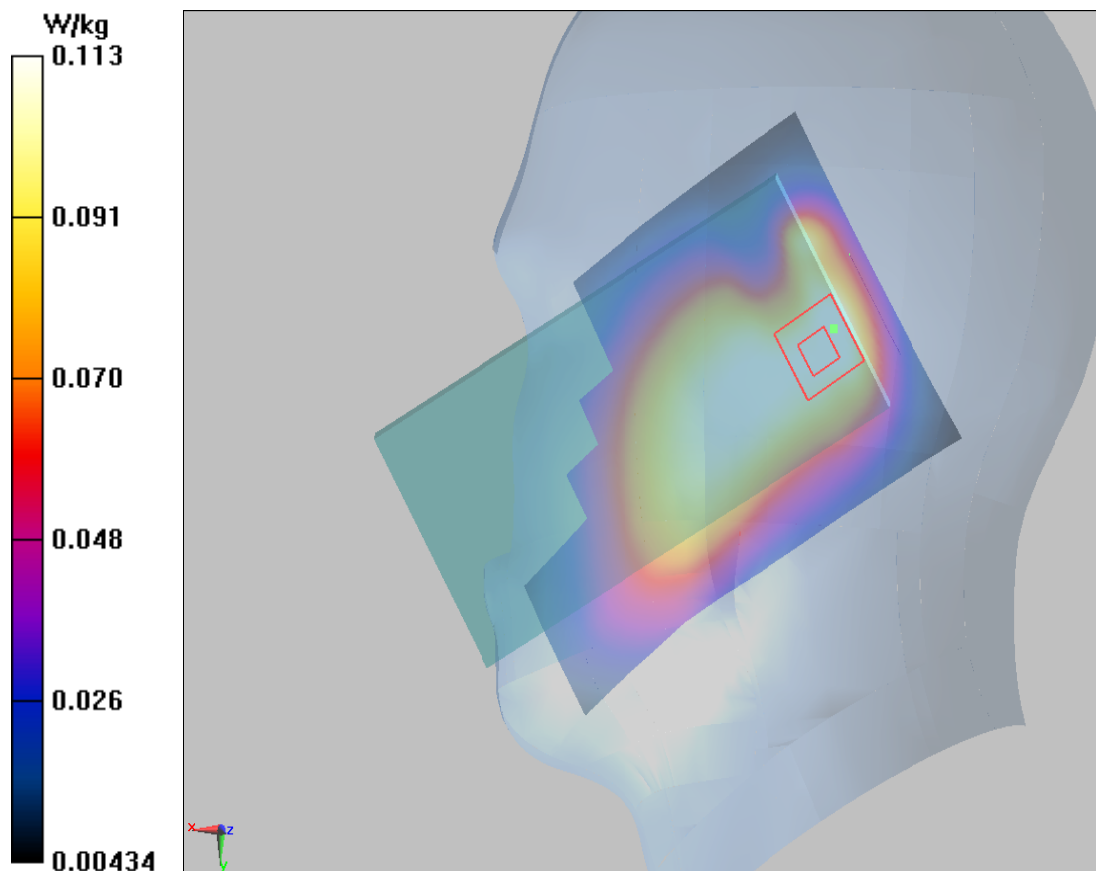
Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.60 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.108 W/kg ; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.113 W/kg



Plot 68 LTE Band 17 1RB Back Side Middle (Distance 15mm)

Date: 11/21/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 57.247$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.83, 5.83, 5.83); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.173 W/kg

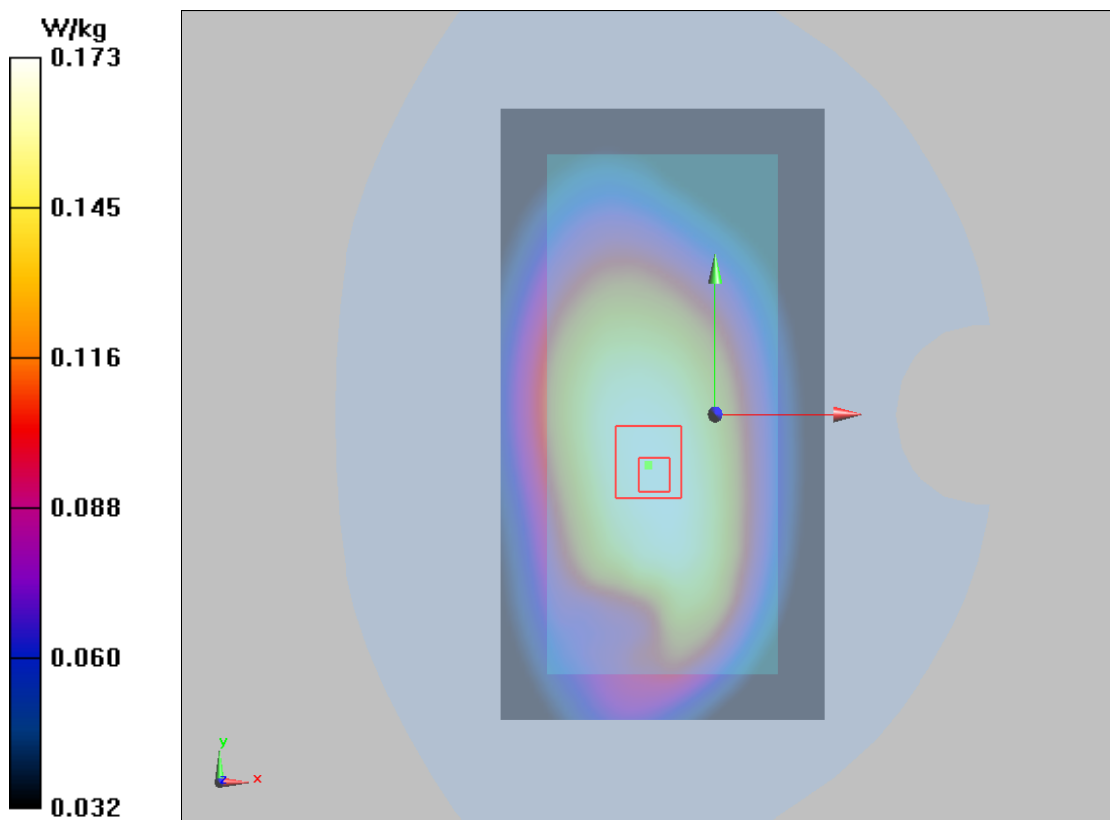
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.03 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.200 W/kg

SAR(1 g) = 0.166 W/kg ; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 0.173 W/kg



Plot 69 LTE Band 17 1RB Back Side Middle (Distance 10mm, Battery2)

Date: 11/21/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 57.247$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.83, 5.83, 5.83); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.286 W/kg

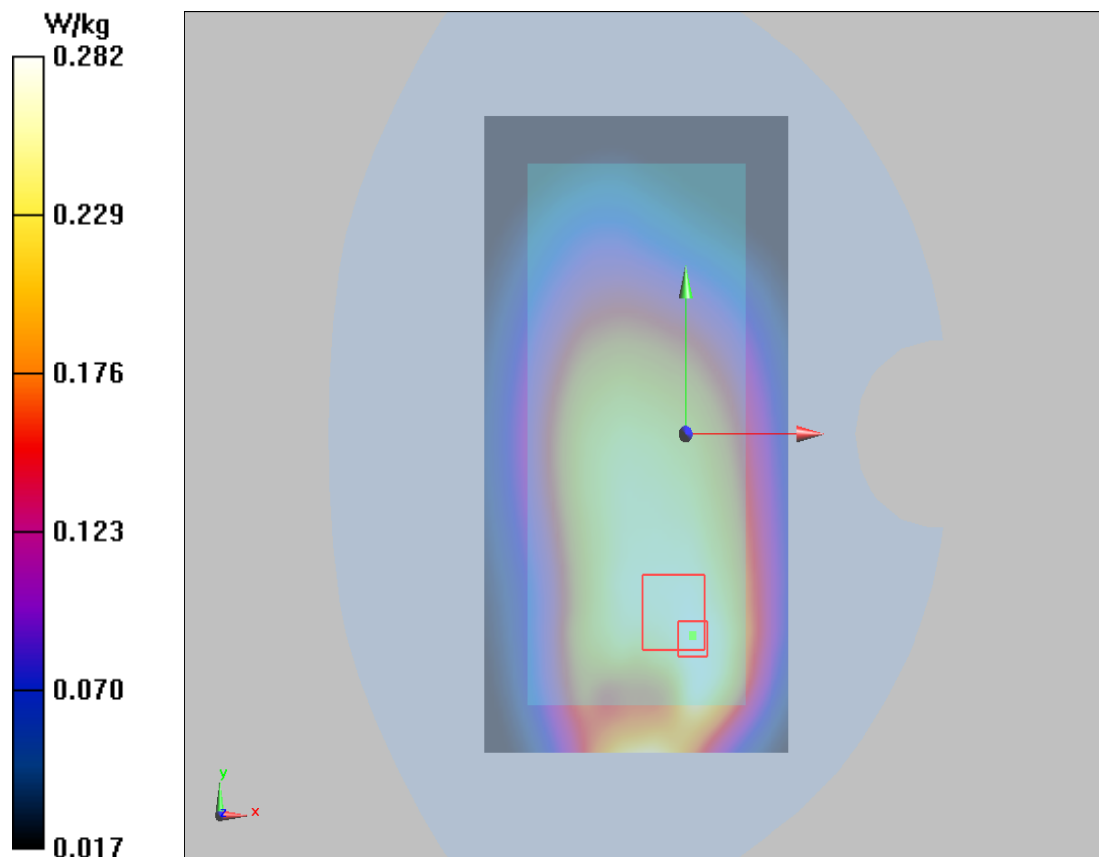
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.66 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.265 W/kg ; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.282 W/kg



Plot 70 LTE Band 26 50%RB Right Cheek Middle

Date: 11/24/2016

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.568$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(6.22, 6.22, 6.22); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.231 W/kg

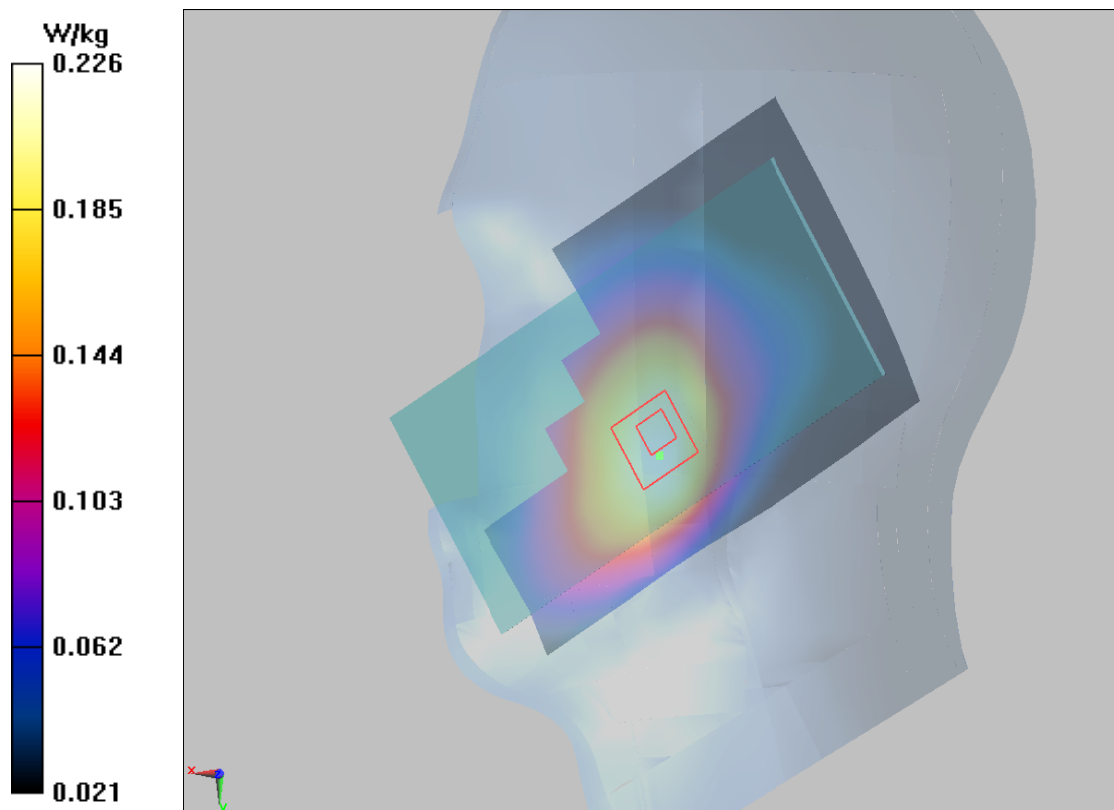
Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.595 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.226 W/kg



Plot 71 LTE Band 26 1RB Back Side High (Distance 15mm)

Date: 11/23/2016

Communication System: UID 0, LTE (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 54.378$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.220 W/kg

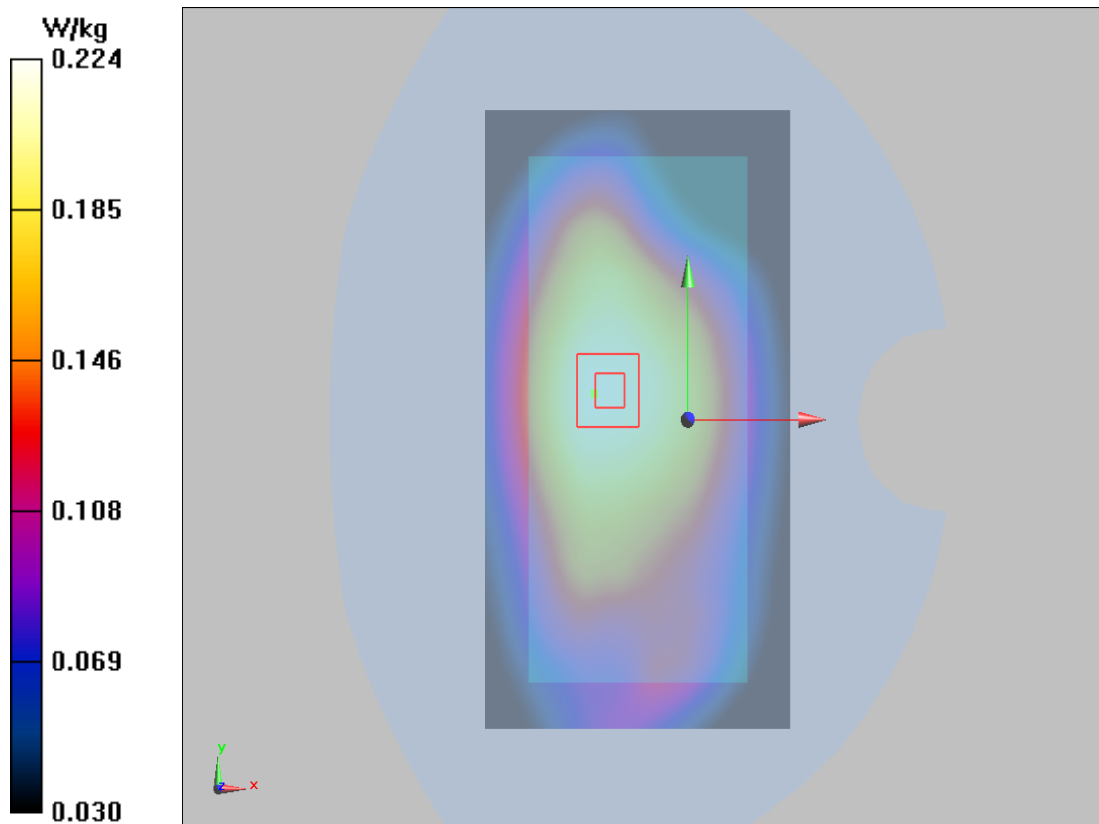
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.51 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.224 W/kg



Plot 72 LTE Band 26 1RB Back Side High (Distance 10mm)

Date: 11/23/2016

Communication System: UID 0, LTE (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 1.006$ S/m; $\epsilon_r = 54.378$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.271 W/kg

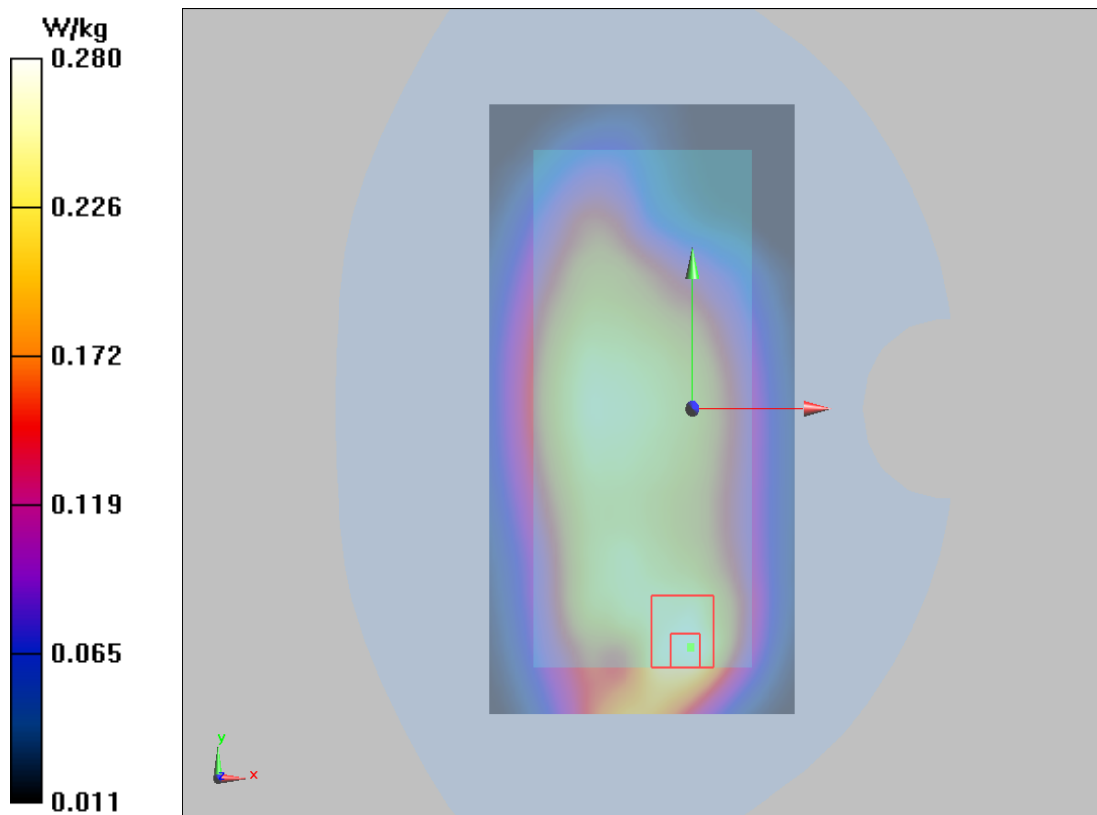
Back Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.48 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.280 W/kg



Plot 73 LTE Band 38 1RB Right Cheek High (State1)

Date: 12/20/2016

Communication System: UID 0, LTE (0); Frequency: 2610 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.042$ S/m; $\epsilon_r = 39.345$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (4.25, 4.25, 4.25); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.232 W/kg

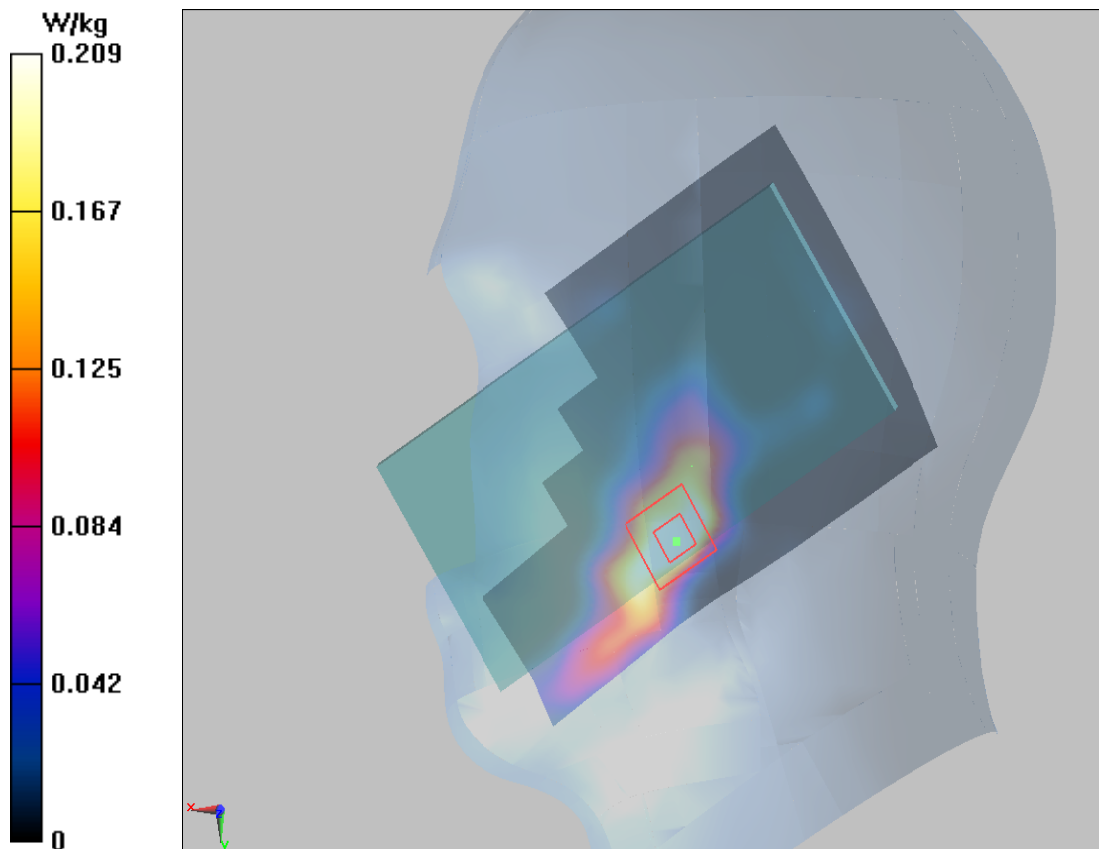
Right Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.510 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



Plot 74 LTE Band 38 1RB Front Side High (Distance 15mm, State1)

Date: 12/14/2016

Communication System: UID 0, LTE (0); Frequency: 2610 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.161$ S/m; $\epsilon_r = 51.919$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.21, 4.21, 4.21); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side High/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

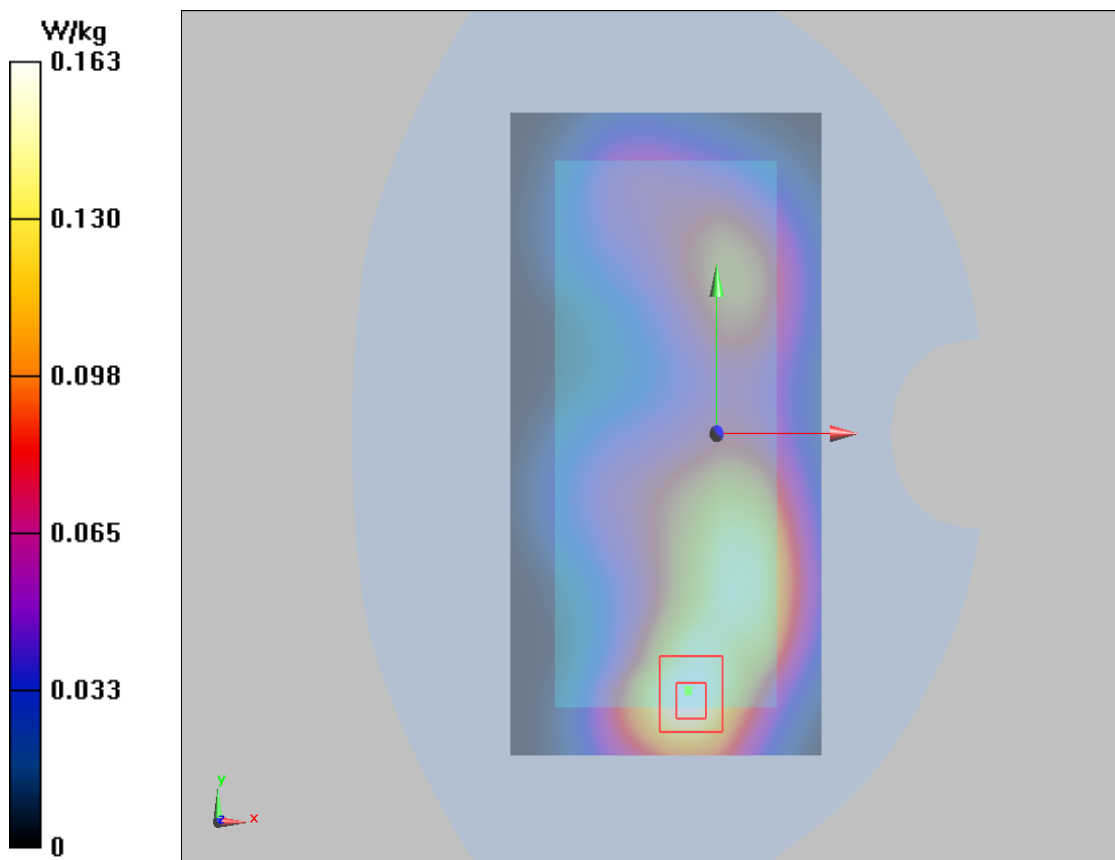
Front Side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.600 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.081 W/kg

Maximum value of SAR (measured) = 0.163 W/kg



Plot 75 LTE Band 38 1RB Front Side High (Distance 10mm, SIM2, State1)

Date: 12/14/2016

Communication System: UID 0, LTE TDD (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57979

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.161$ S/m; $\epsilon_r = 51.919$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (4.21, 4.21, 4.21); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side High/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.642 W/kg

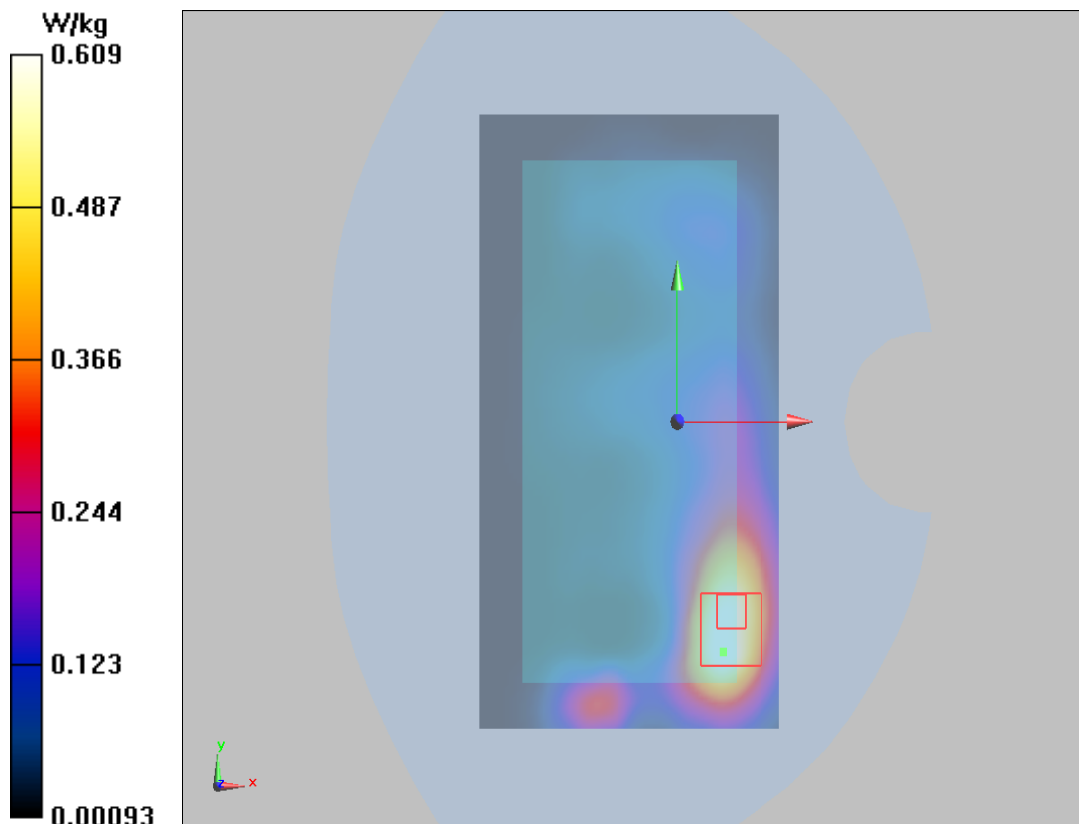
Front Side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.472 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 0.609 W/kg



Plot 76 LTE Band 41 1RB Right Cheek High (SIM2, State1)

Date: 12/20/2016

Communication System: UID 0, LTE_TDD (0); Frequency: 2645 MHz; Duty Cycle: 1:1.57979

Medium parameters used: $f = 2645$ MHz; $\sigma = 2.083$ S/m; $\epsilon_r = 39.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.25, 4.25, 4.25); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.402 W/kg

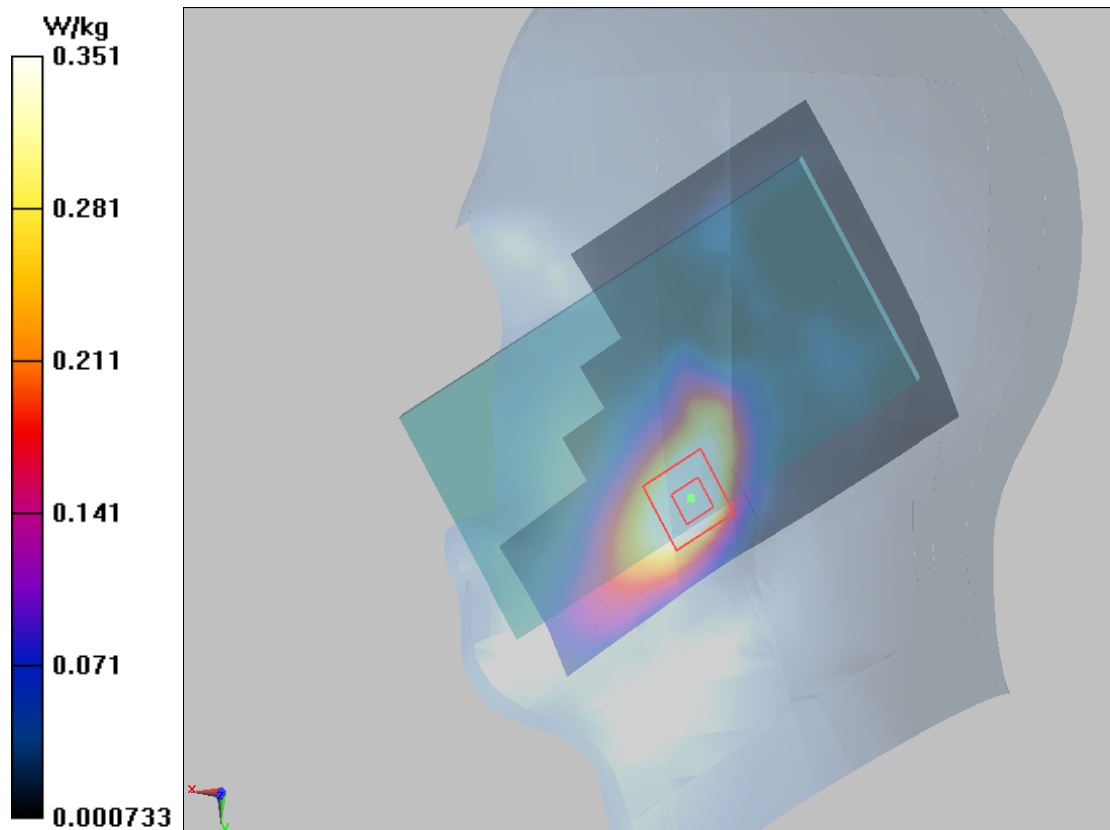
Right Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.254 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.351 W/kg



Plot 77 LTE Band 41 1RB Front Side High (Distance 15mm, State1)

Date: 12/15/2016

Communication System: UID 0, LTE TDD (0); Frequency: 2645 MHz; Duty Cycle: 1:1.57979

Medium parameters used: $f = 2645$ MHz; $\sigma = 2.201$ S/m; $\epsilon_r = 51.864$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.21, 4.21, 4.21); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side High/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.209 W/kg

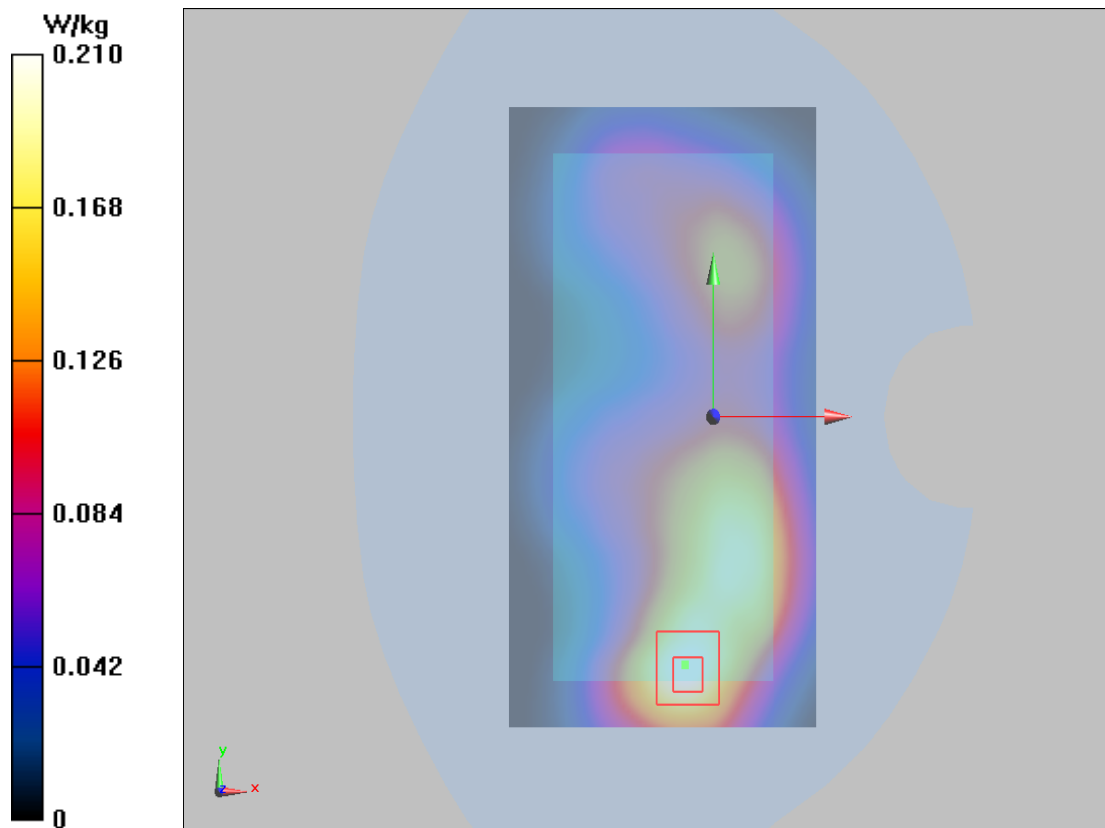
Front Side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.243 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.103 W/kg

Maximum value of SAR (measured) = 0.210 W/kg



Plot 78 LTE Band 41 1RB Front Side High (Distance 10mm, SIM2, State1)

Date: 12/15/2016

Communication System: UID 0, LTE TDD (0); Frequency: 2645 MHz; Duty Cycle: 1:1.57979

Medium parameters used: $f = 2645$ MHz; $\sigma = 2.201$ S/m; $\epsilon_r = 51.864$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (4.21, 4.21, 4.21); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side High/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.650 W/kg

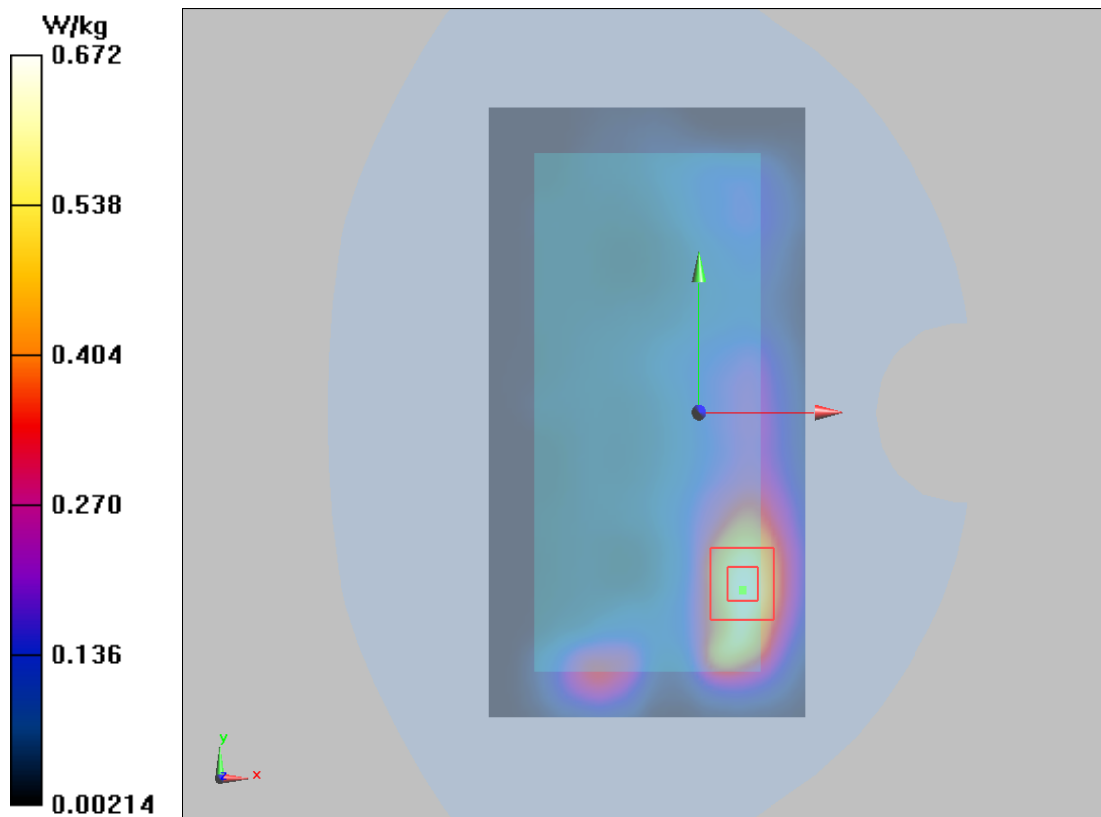
Front Side High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.387 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.672 W/kg



Second-Antenna

Plot 79 GSM 850 Right Cheek High (Battery 3)

Date: 11/24/2016

Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 849$ MHz; $\sigma = 0.937$ S/m; $\epsilon_r = 41.909$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(6.22, 6.22, 6.22); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

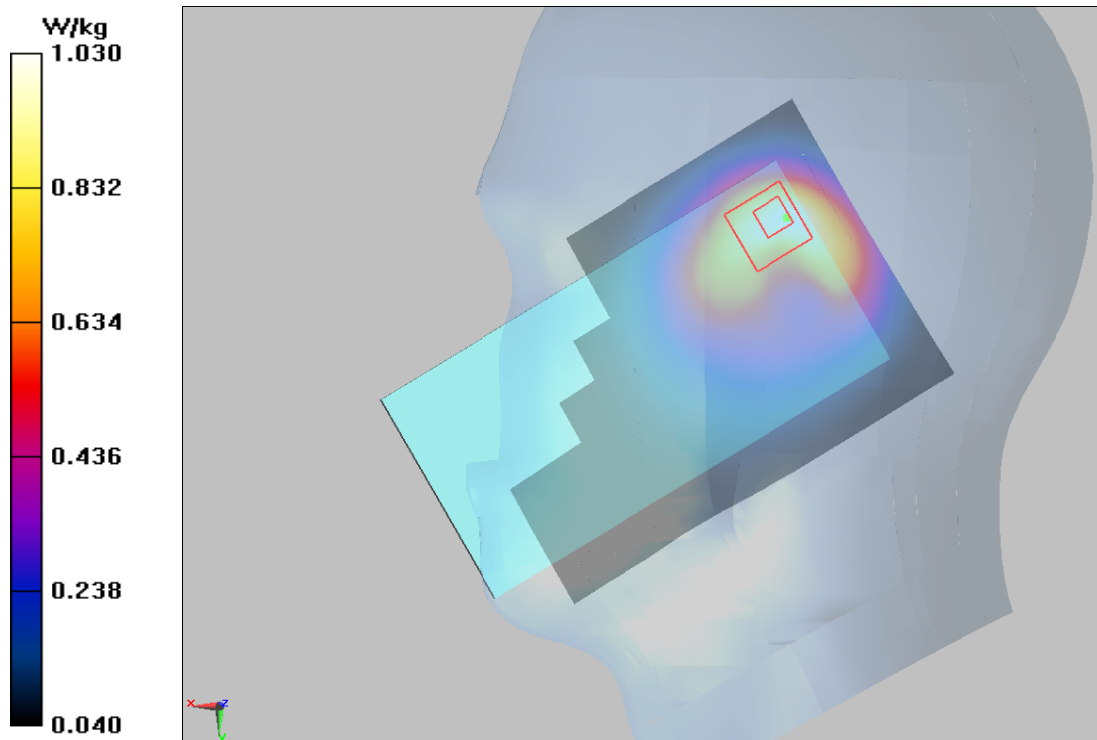
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.66 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.992 W/kg; SAR(10 g) = 0.590 W/kg

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



Plot 80 GSM 850 Back Side Middle (Distance 15mm)

Date: 11/22/2016

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.248 W/kg

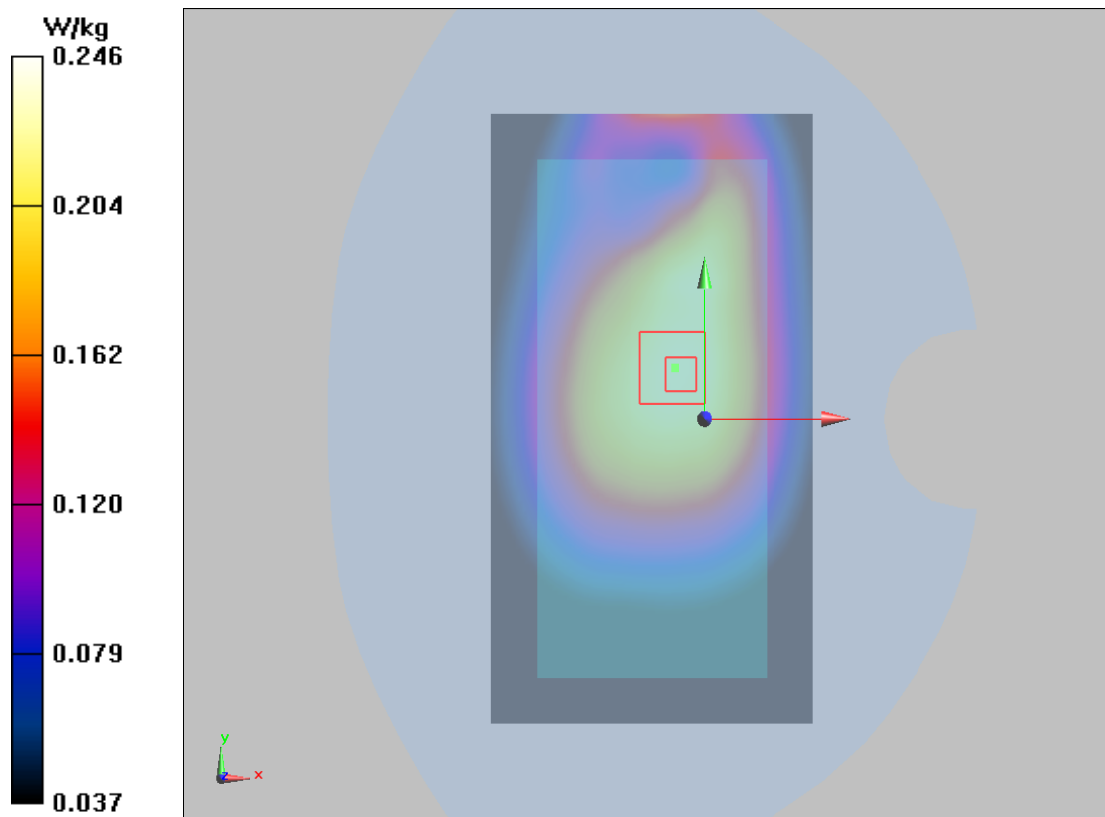
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.89 V/m; Power Drift = 0.07dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.233W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.246 W/kg



Plot 81 GSM 850 GPRS (2Txslots) Back Side Middle (Distance 10mm)

Date: 11/22/2016

Communication System: UID 0, 2 slot GPRS (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 837$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.475 W/kg

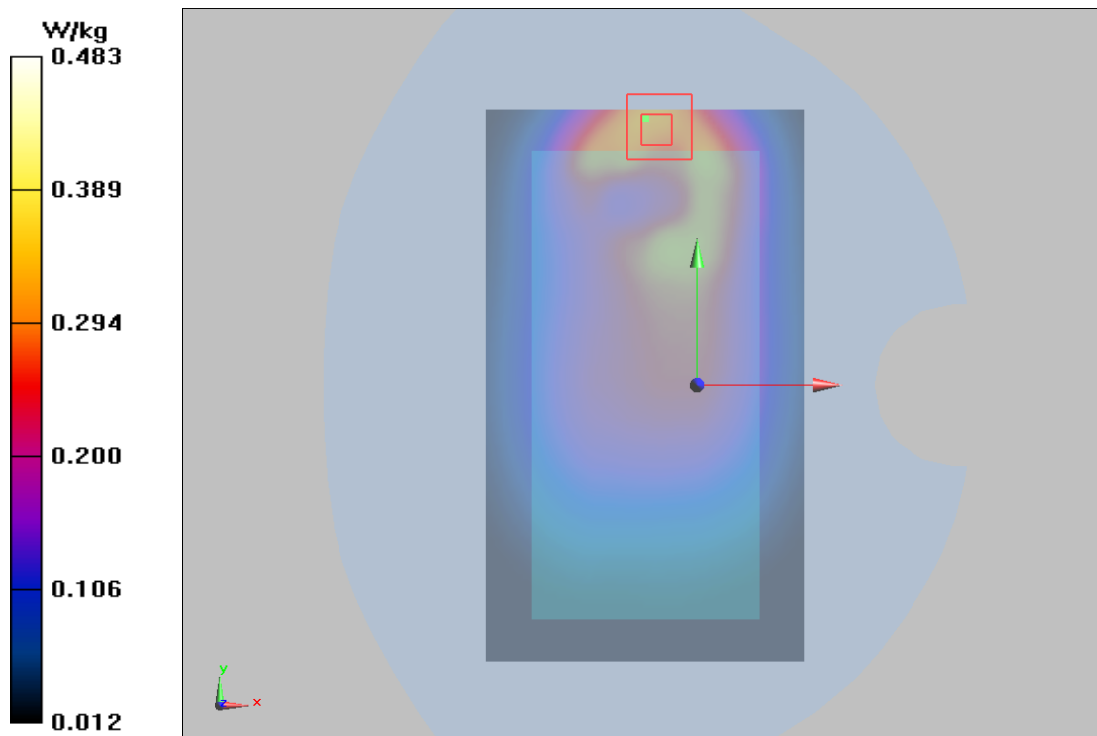
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.308 W/kg

Maximum value of SAR (measured) = 0.483 W/kg



Plot 82 GSM 1900 Right Cheek High (Full Power)

Date: 11/28/2016

Communication System: UID 0, GSM (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.977$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.09, 5.09, 5.09); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

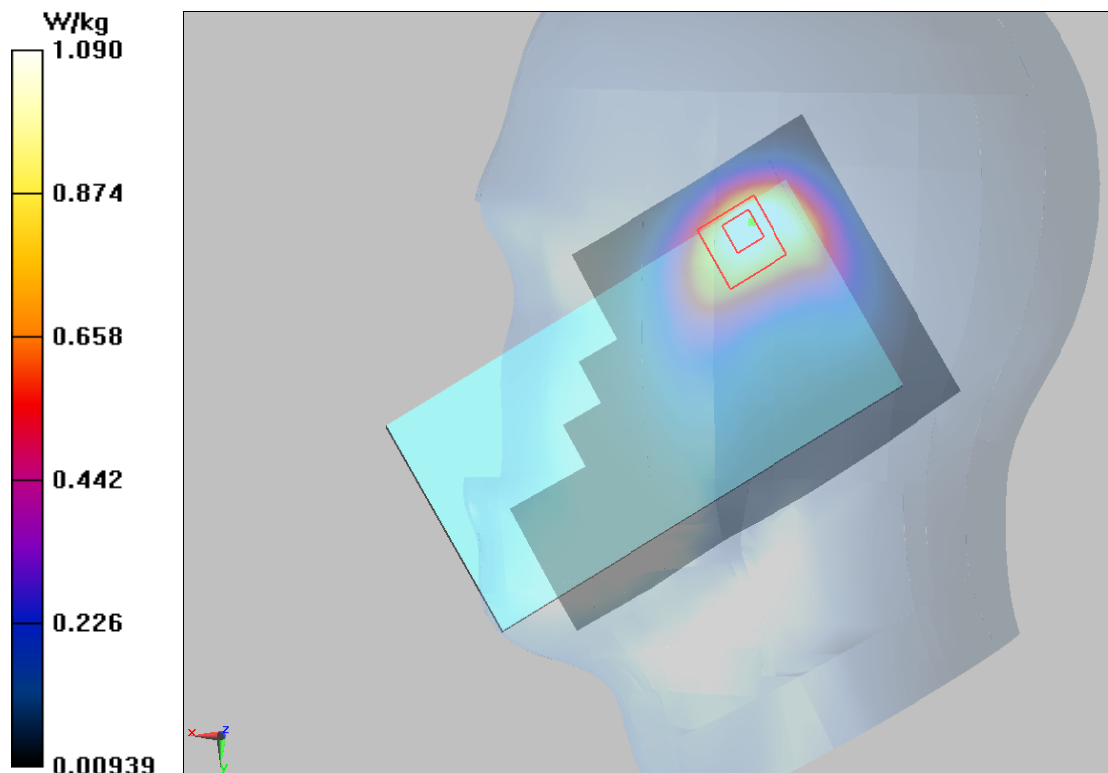
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.72 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.613 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



Plot 83 GSM 1900 Right Cheek High (Reduce Power)

Date: 11/28/2016

Communication System: UID 0, GSM (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 38.977$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.09, 5.09, 5.09); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.993 W/kg

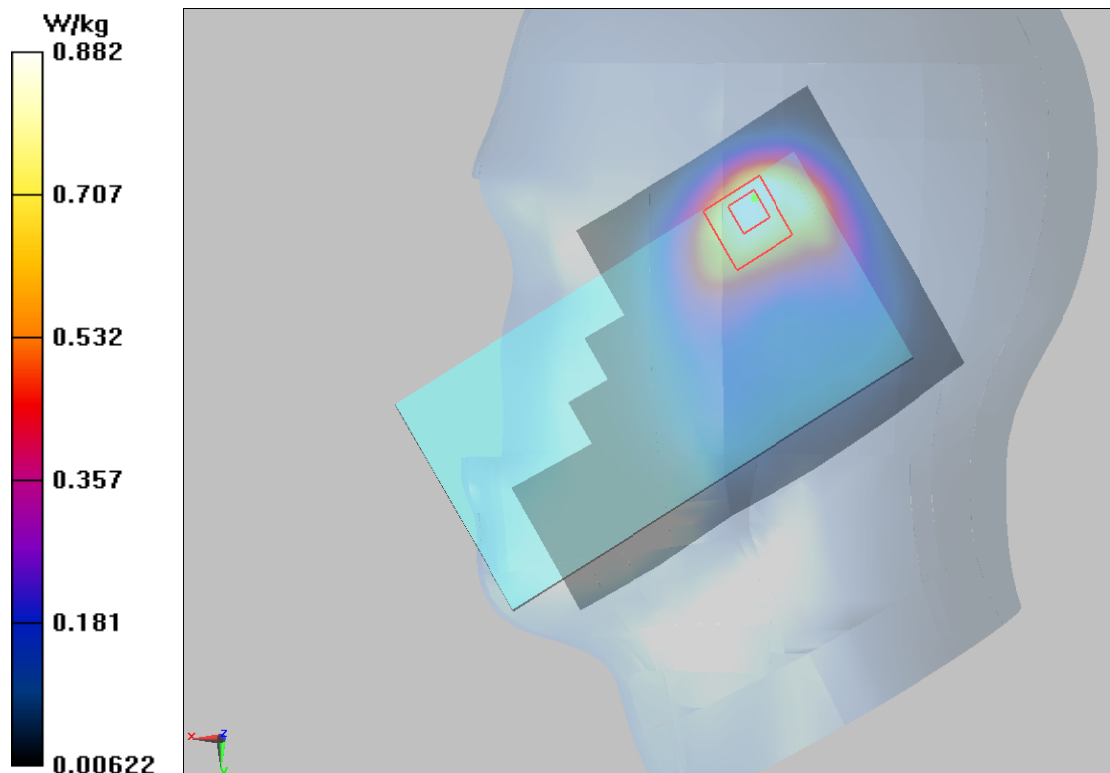
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.69 V/m ; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.830 W/kg ; SAR(10 g) = 0.485 W/kg

Maximum value of SAR (measured) = 0.882 W/kg



Plot 84 GSM 1900 Back Side Middle (Distance 15mm)

Date: 2016/12/7

Communication System: UID 0, GSM1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 51.512$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.108 W/kg

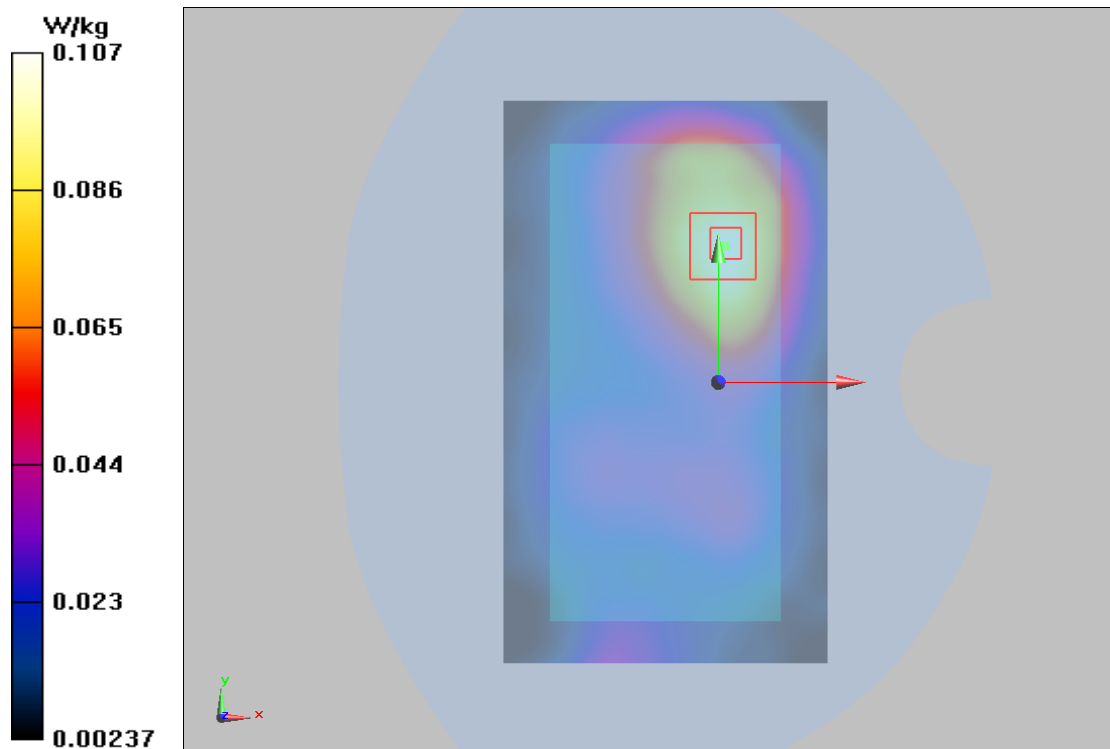
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.382 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.107 W/kg



Plot 85 GSM 1900 GPRS (2Txslots) Left Edge Middle (Distance 10mm)

Date: 2016/12/7

Communication System: UID 0, GPRS 2TX (0); Frequency: 1880 MHz; Duty Cycle: 1:4.14954

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.503 \text{ S/m}$; $\epsilon_r = 51.512$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Left Edge Middle /Area Scan (51x181x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.221 W/kg

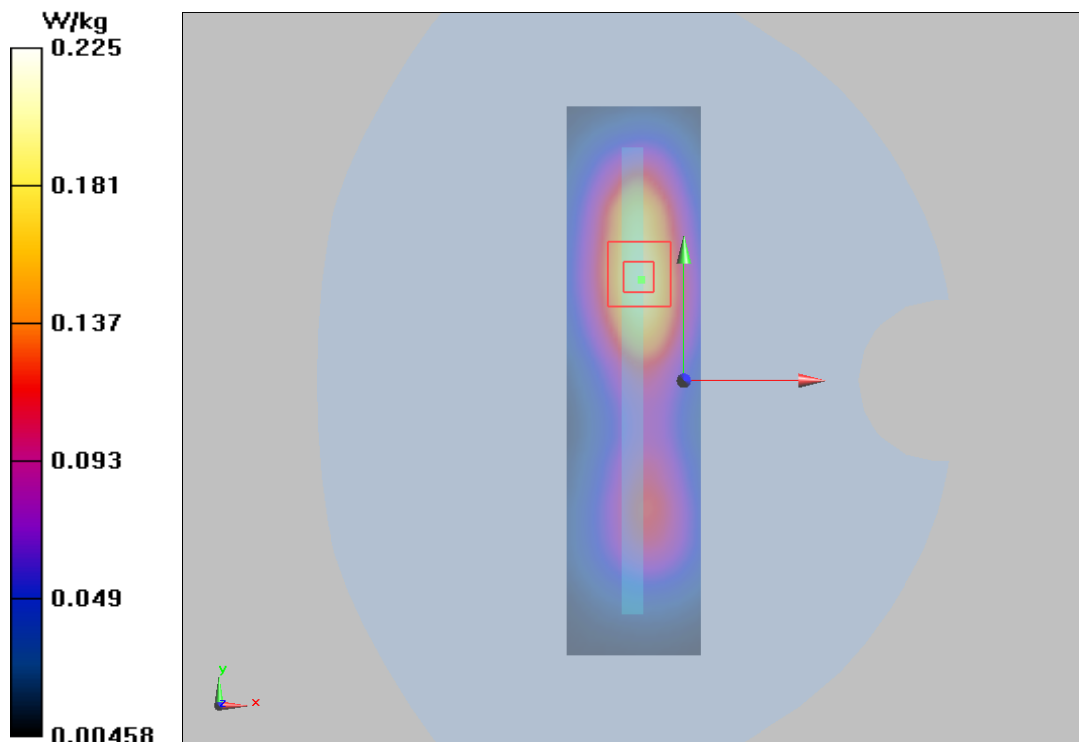
Left Edge Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.028 V/m; Power Drift = 0 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.225 W/kg



Plot 86 UMTS Band II Right Cheek High (Full Power)

Date: 11/28/2016

Communication System: UID 0, WCDMA Band II (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 40.152$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.09, 5.09, 5.09); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

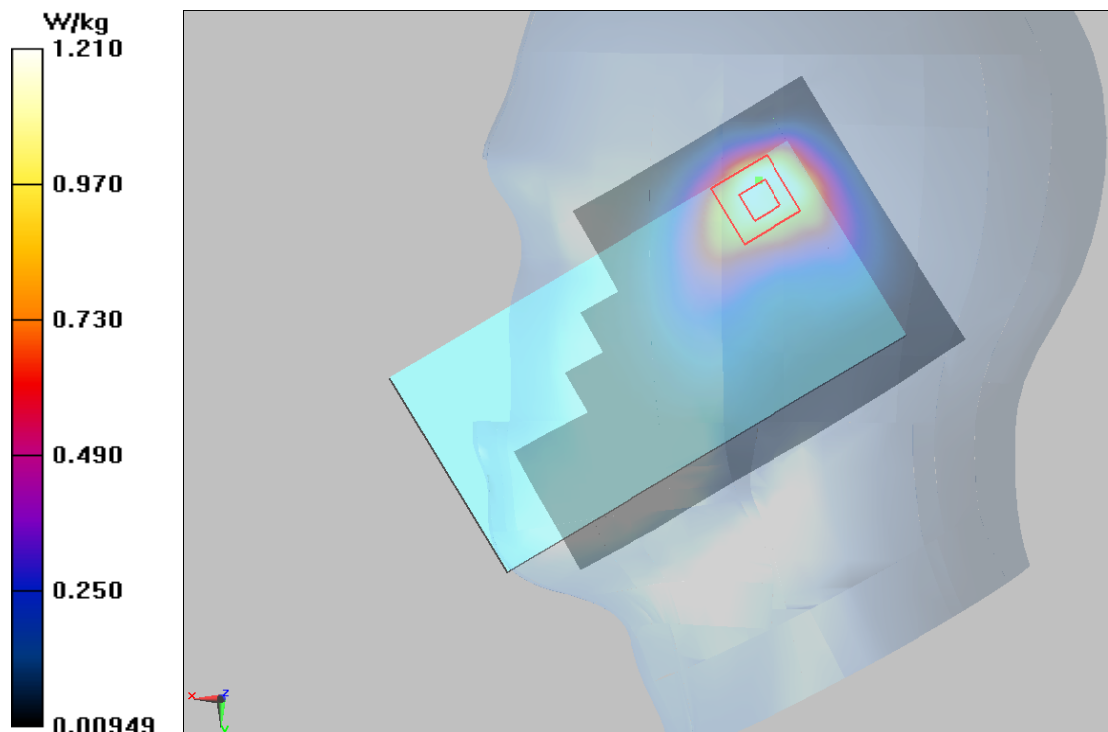
Right Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.56 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.639 W/kg

Maximum value of SAR (measured) = 1.21 W/kg



Plot 87 UMTS Band II Right Cheek High (Reduce Power)

Date: 11/28/2016

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 40.152$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

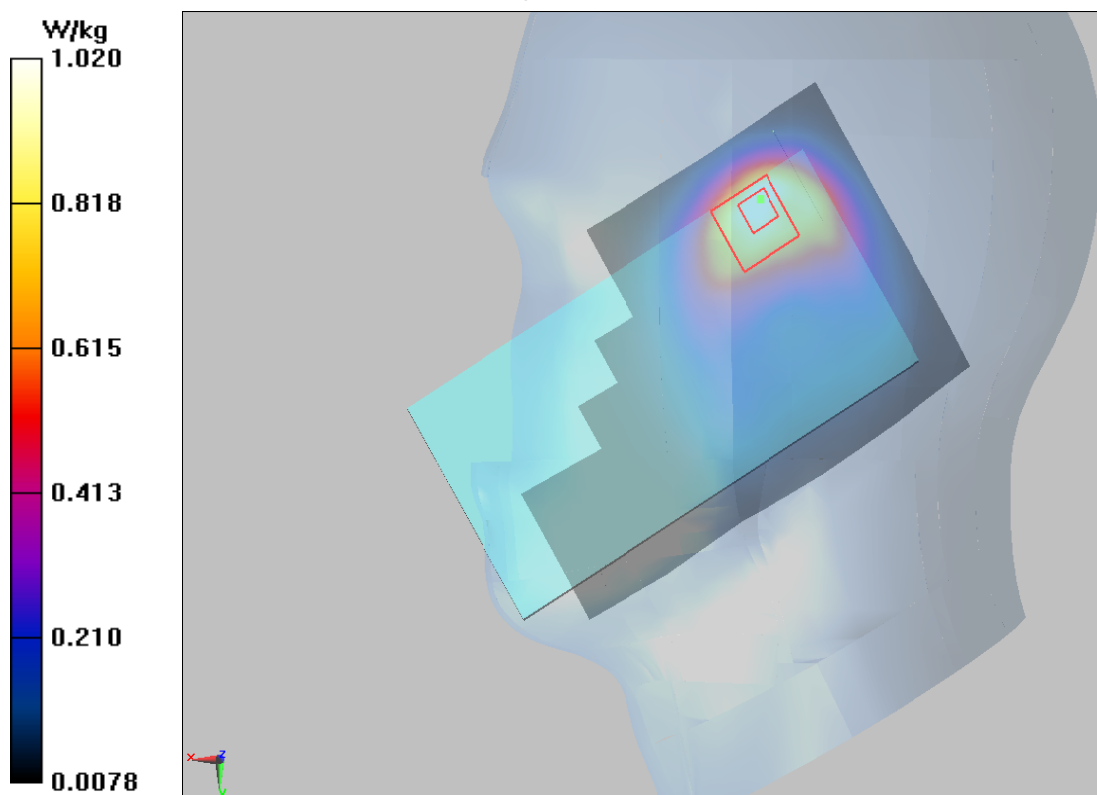
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.45 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.541 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



Plot 88 UMTS Band II Back Side Middle (Distance 15mm)

Date: 2016/12/7

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.477$ S/m; $\epsilon_r = 51.607$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

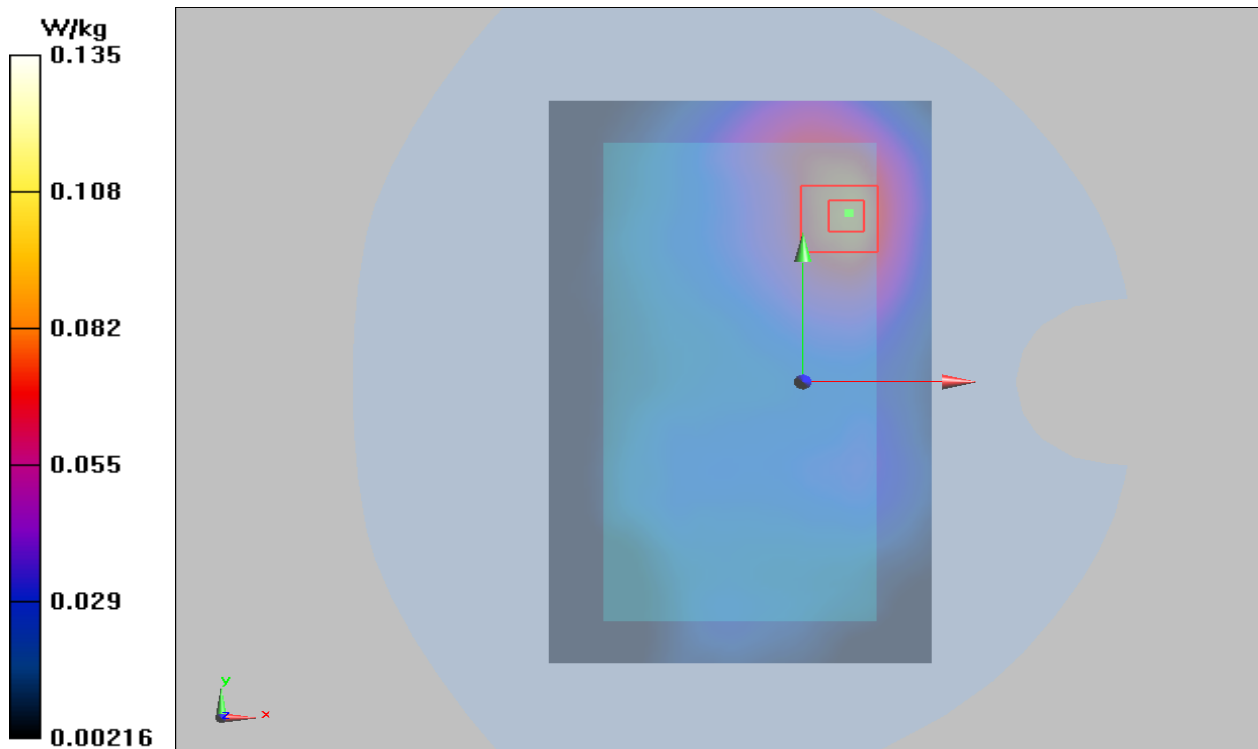
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.778 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.135 W/kg



Plot 89 UMTS Band II Left Edge Middle (Distance 10mm)

Date: 2016/12/7

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ S/m; $\epsilon_r = 51.539$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(4.78, 4.78, 4.78); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM;

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Left Edge Middle/Area Scan (51x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.241 W/kg

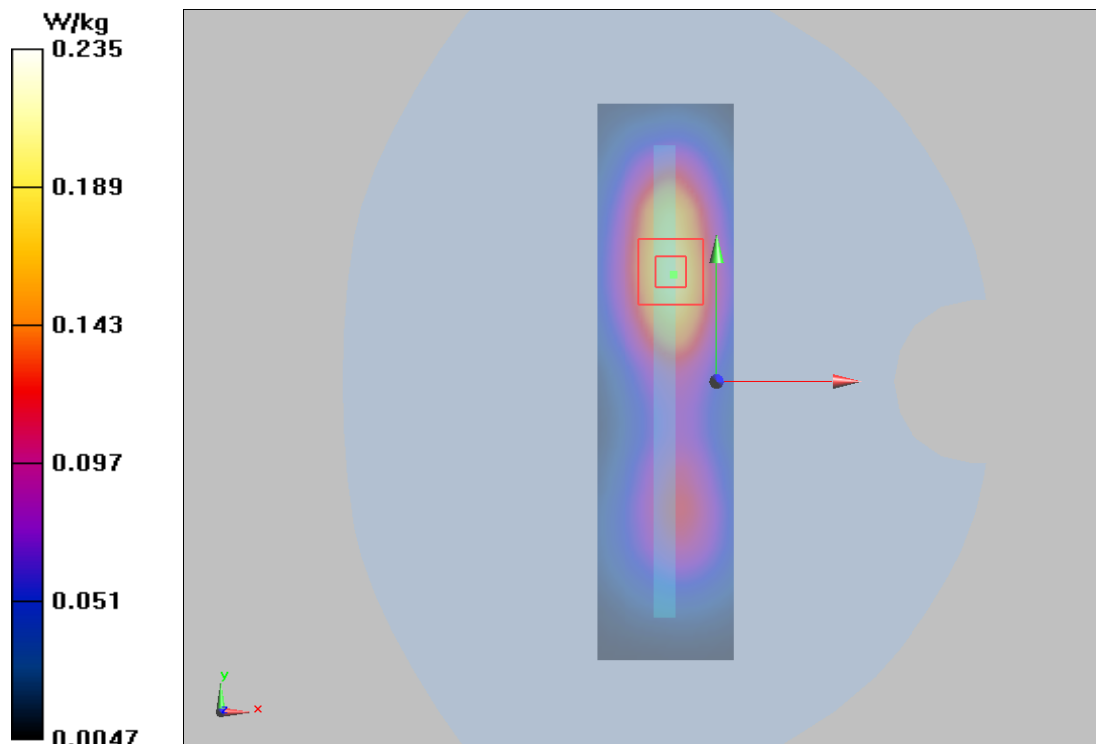
Left Edge Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.026 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.235 W/kg



Plot 90 UMTS Band IV Right Cheek High (Battery 3, Full Power)

Date: 11/26/2016

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 38.621$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (5.32, 5.32, 5.32); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP: 1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

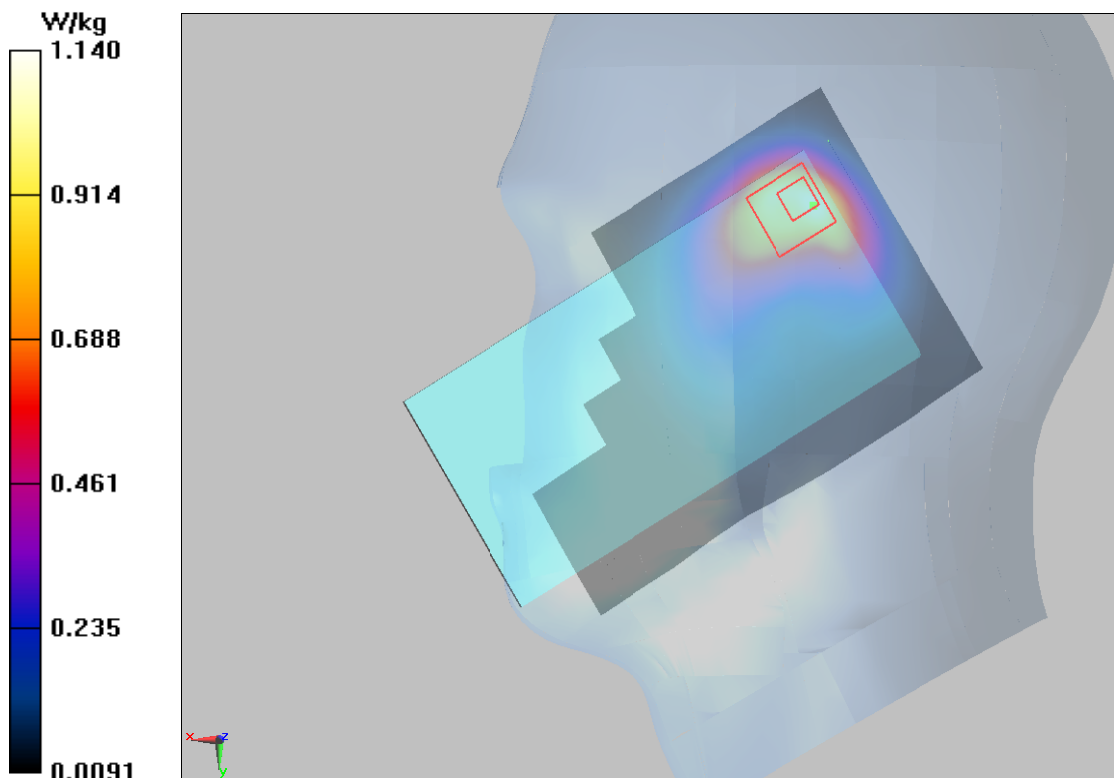
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.70 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



Plot 91 UMTS Band IV Right Cheek High (Reduce Power)

Date: 11/26/2016

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 38.621$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.32, 5.32, 5.32); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.974 W/kg

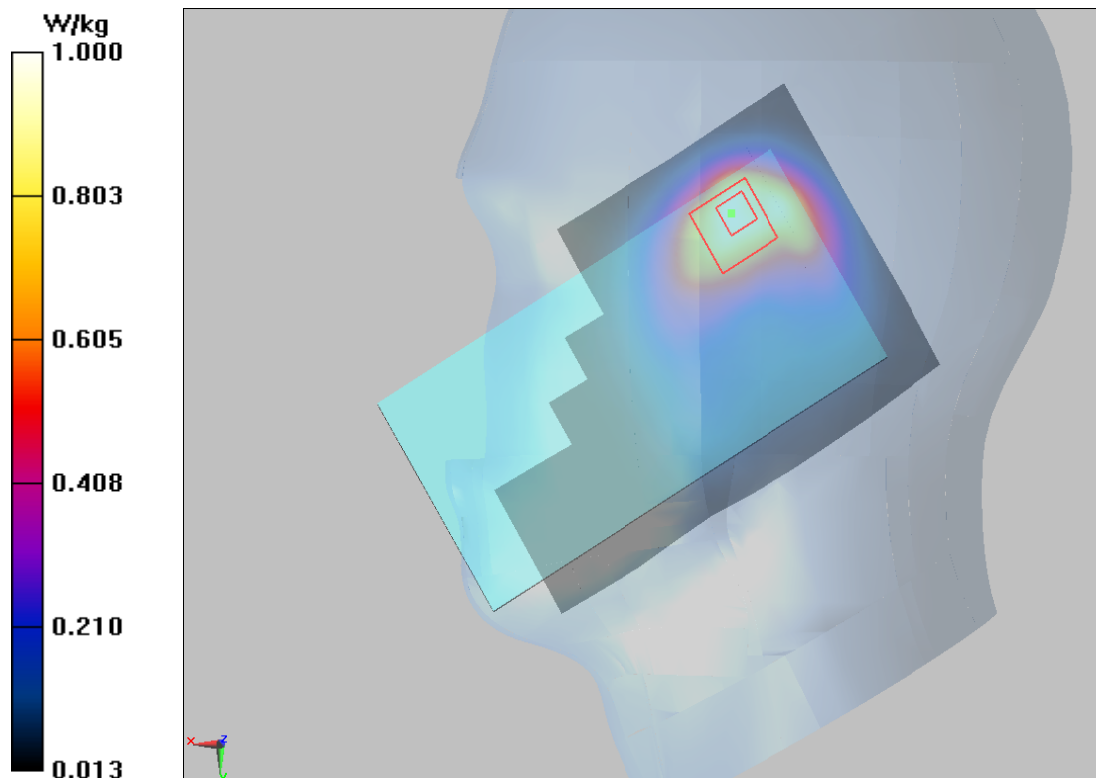
Right Cheek High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.51 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.539 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



Plot 92 UMTS Band IV Front Side Middle (Distance 15mm)

Date: 2016/12/9

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

Medium parameters used: $f = 1732$ MHz; $\sigma = 1.483$ S/m; $\epsilon_r = 51.596$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.00, 5.00, 5.00); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0737 W/kg

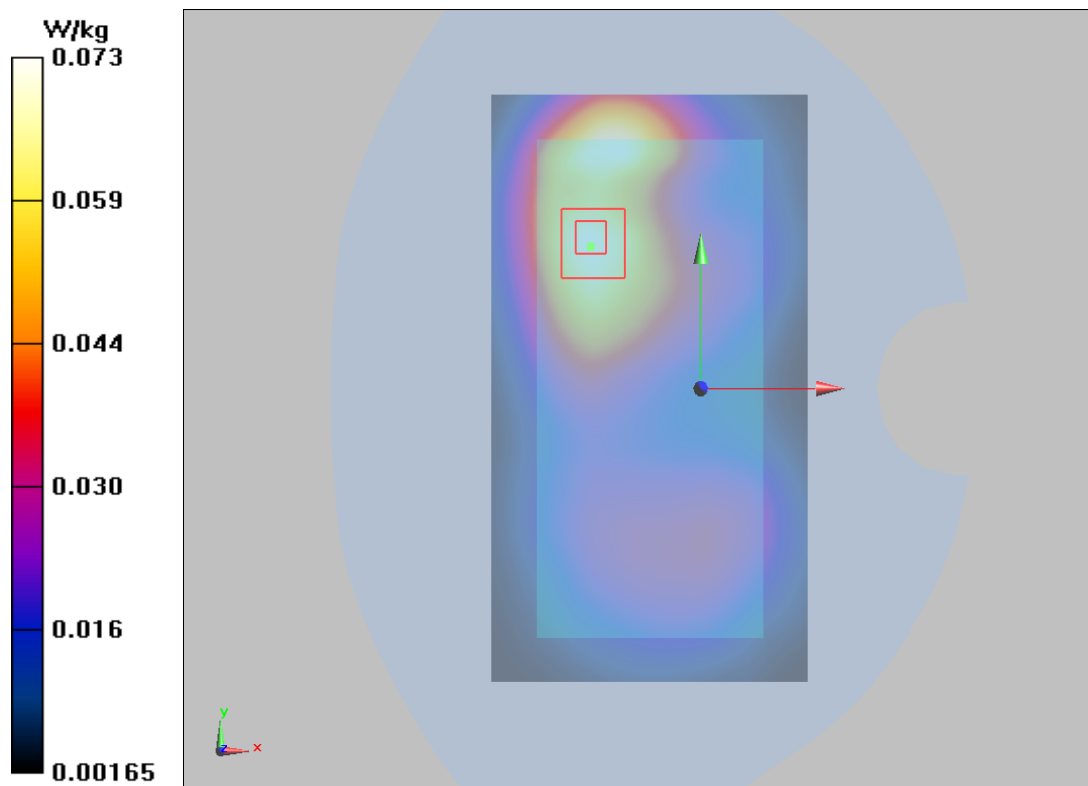
Front Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.925 V/m; Power Drift = -0.057dB

Peak SAR (extrapolated) = 0.103 W/kg

SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.043 W/kg

Maximum value of SAR (measured) = 0.0730 W/kg



Plot 93 UMTS Band IV Back Side Middle (Distance 10mm)

Date: 2016/12/9

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

Medium parameters used: $f = 1732$ MHz; $\sigma = 1.483$ S/m; $\epsilon_r = 51.596$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.00, 5.00, 5.00); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle /Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.160 W/kg

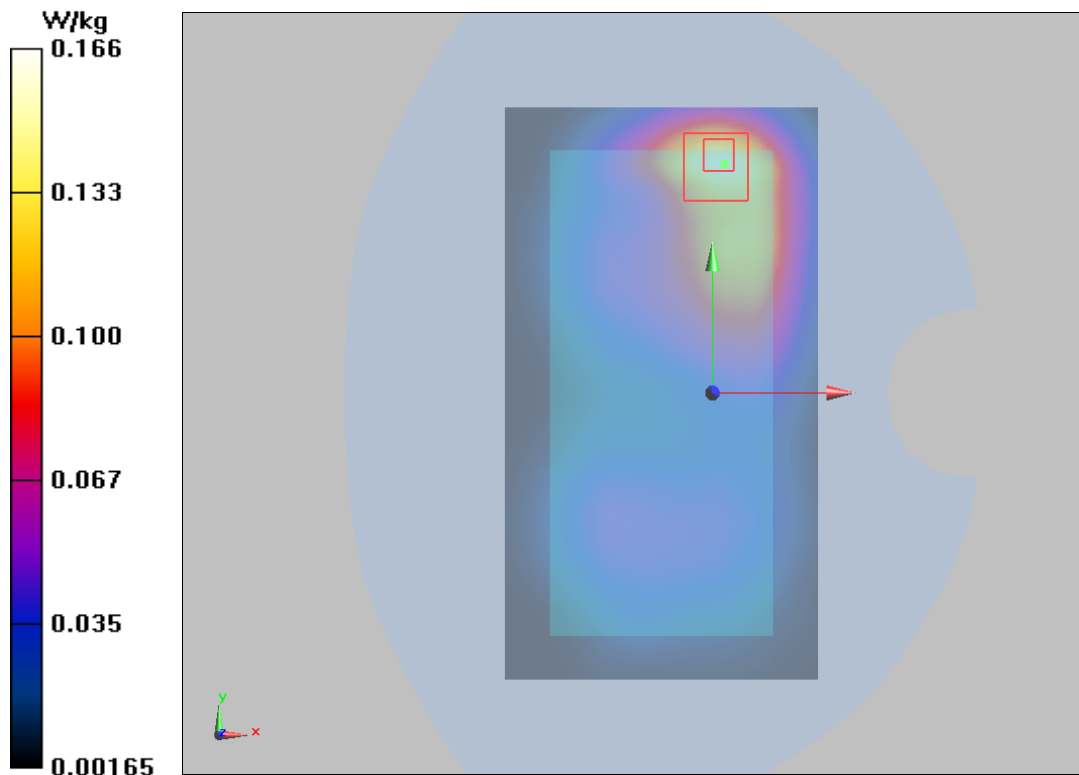
Back Side Middle /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.177 V/m; Power Drift = 0.015dB

Peak SAR (extrapolated) = 0.236 W/kg

SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.094 W/kg

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



Plot 94 UMTS Band V Right Cheek Low

Date: 11/25/2016

Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 41.917$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(6.22, 6.22, 6.22); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek Low/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

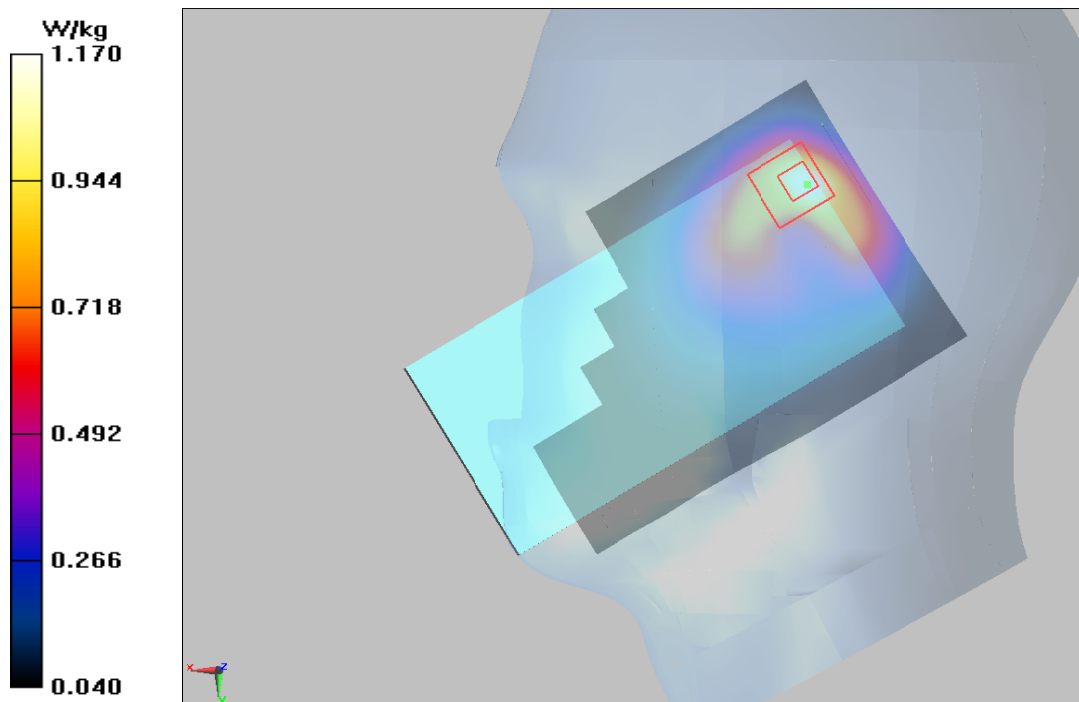
Right Cheek Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.45 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.573 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



Plot 95 UMTS Band V Back Side Low (Distance 15mm)

Date: 11/22/2016

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Low/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.231 W/kg

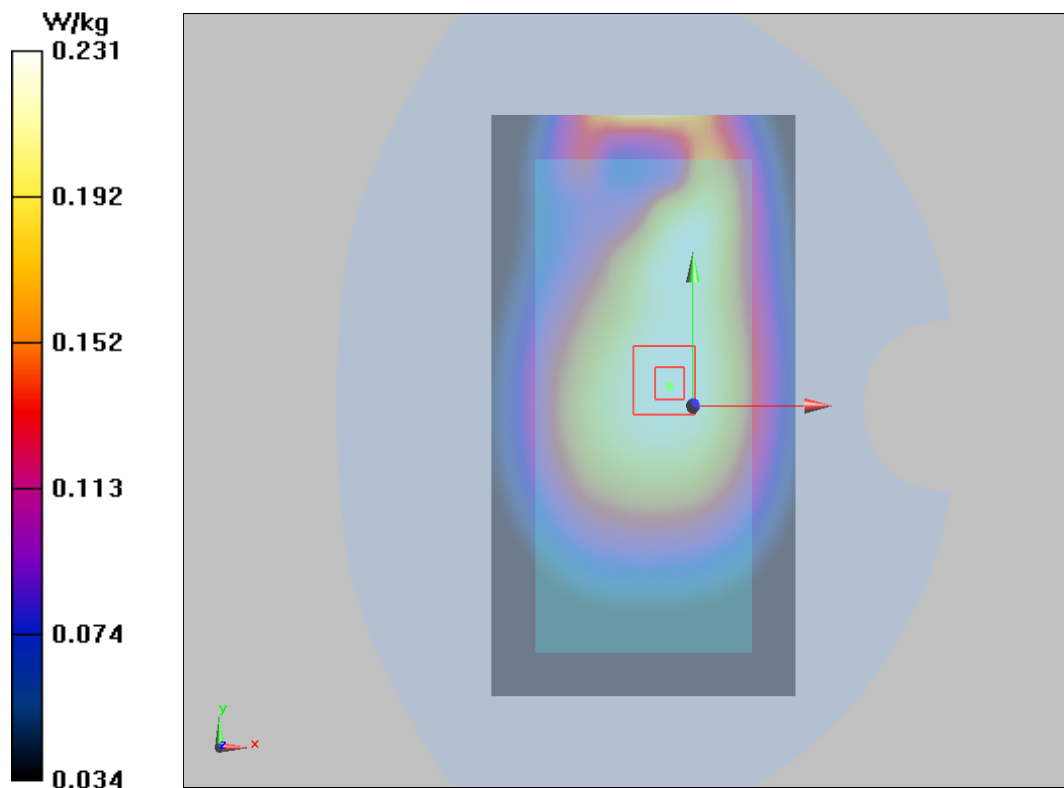
Back Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.16 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.231 W/kg



Plot 96 UMTS Band V Back Side Middle (Distance 10mm)

Date: 11/22/2016

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF (5.87, 5.87, 5.87); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 2; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Back Side Middle/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.455 W/kg

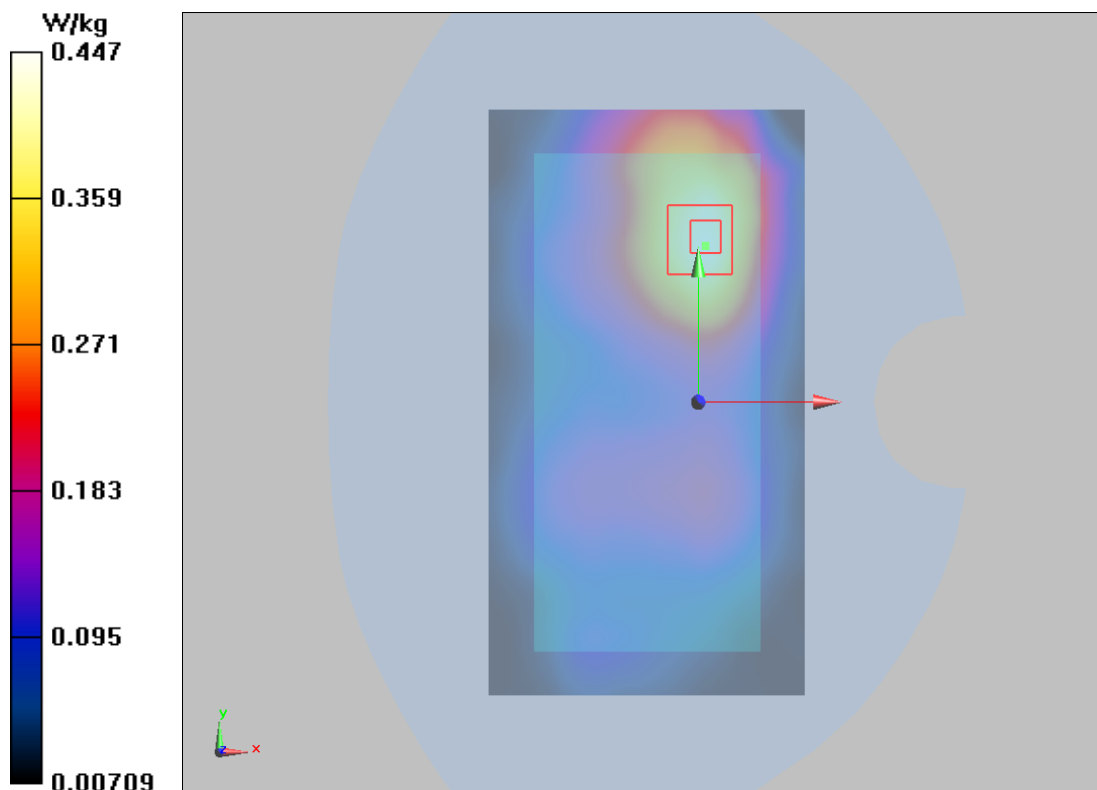
Back Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.87 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.733 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.224 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



Plot 97 LTE Band 2 1RB Right Cheek High (Battery 3, Full Power)

Date: 11/27/2016

Communication System: UID 0, LTE_FDD (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.008$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Right Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: ES3DV3 - SN3189; ConvF(5.09, 5.09, 5.09); Calibrated: 7/27/2016;

Electronics: DAE4 Sn1317; Calibrated: 8/2/2016

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Right Cheek High /Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

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

Reference Value = 19.32 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.656 W/kg

Maximum value of SAR (measured) = 1.27 W/kg

