

P01 GSM850_GSM_Right Cheek_251_Battery 1

DUT: EUT

Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 0.941 \text{ S/m}$; $\epsilon_r = 42.808$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.13, 6.13, 6.13); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.379 W/kg

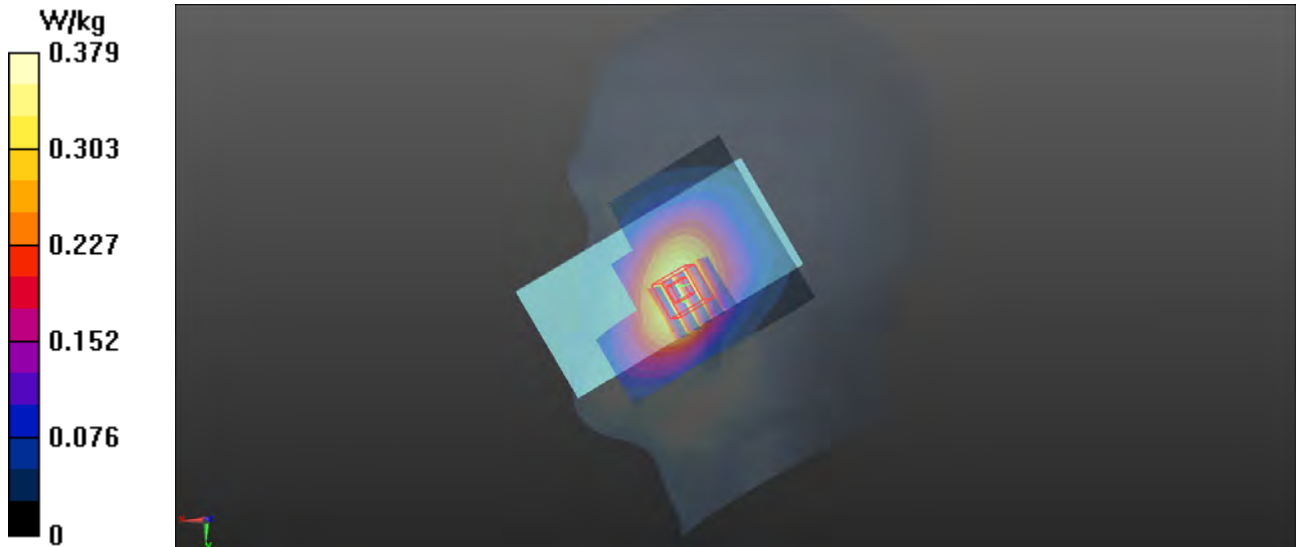
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.504 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.337 W/kg ; SAR(10 g) = 0.245 W/kg

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



P02 GSM1900_GSM_Right Cheek_512_Battery 2

DUT: EUT

Communication System: UID 0, GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium: HSL1900 Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.343 \text{ S/m}$; $\epsilon_r = 40.312$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(5.13, 5.13, 5.13); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.194 W/kg

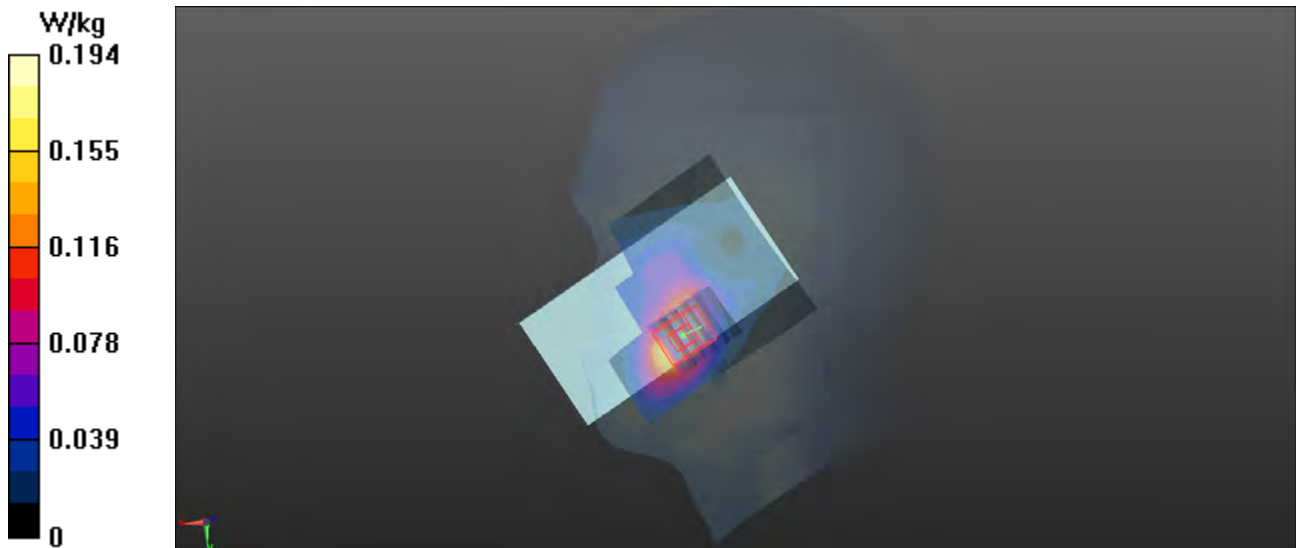
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.221 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.164 W/kg ; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.192 W/kg



P03 WCDMA II_RMC12.2K_Right Cheek_9538_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.088$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(5.13, 5.13, 5.13); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.334 W/kg

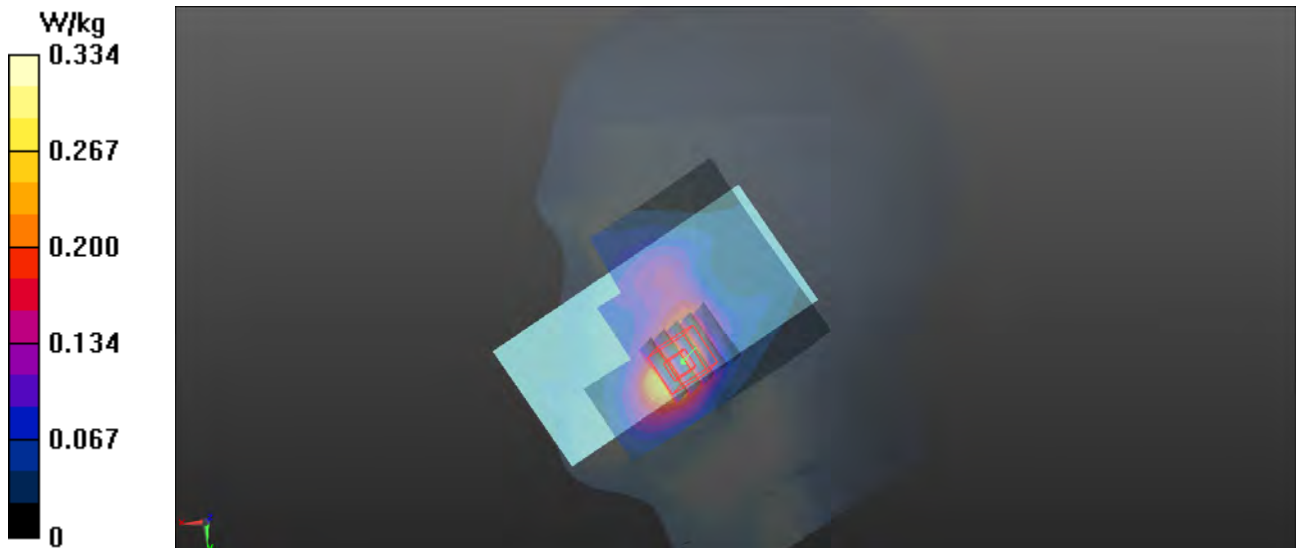
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.754 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.327 W/kg



P04 WCDMA IV_RMC12.2K_Right Cheek_1413_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium: HSL1750 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.323$ S/m; $\epsilon_r = 39.027$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(5.33, 5.33, 5.33); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.392 W/kg

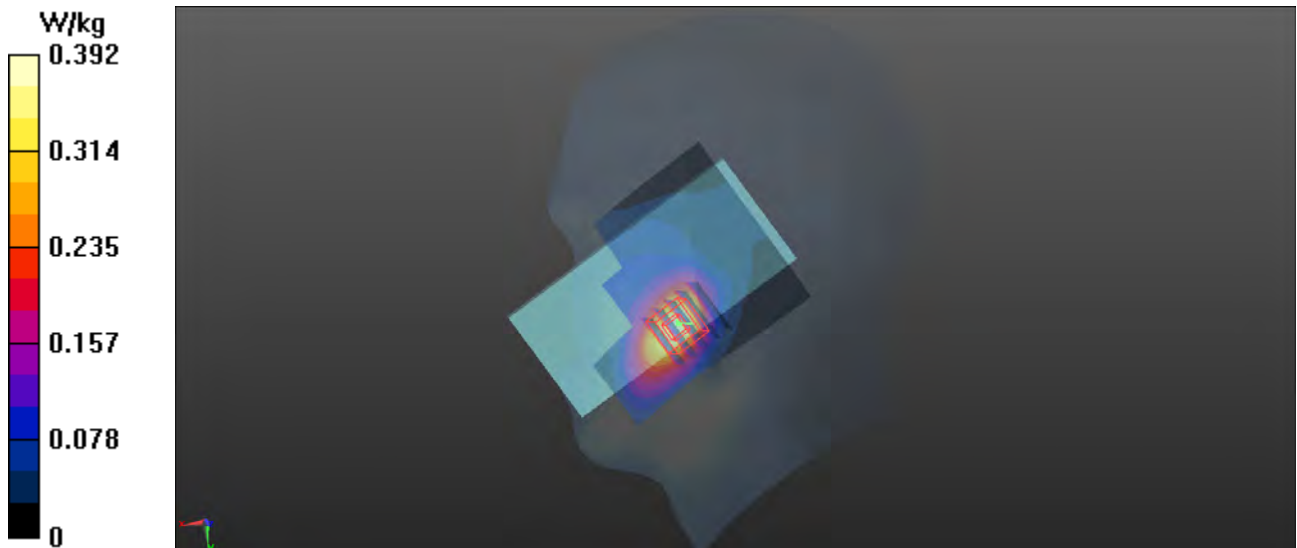
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.943 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.379 W/kg



P05 WCDMA V_RMC12.2K_Right Cheek_4233_Battery 2

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.939 \text{ S/m}$; $\epsilon_r = 42.834$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.13, 6.13, 6.13); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.374 W/kg

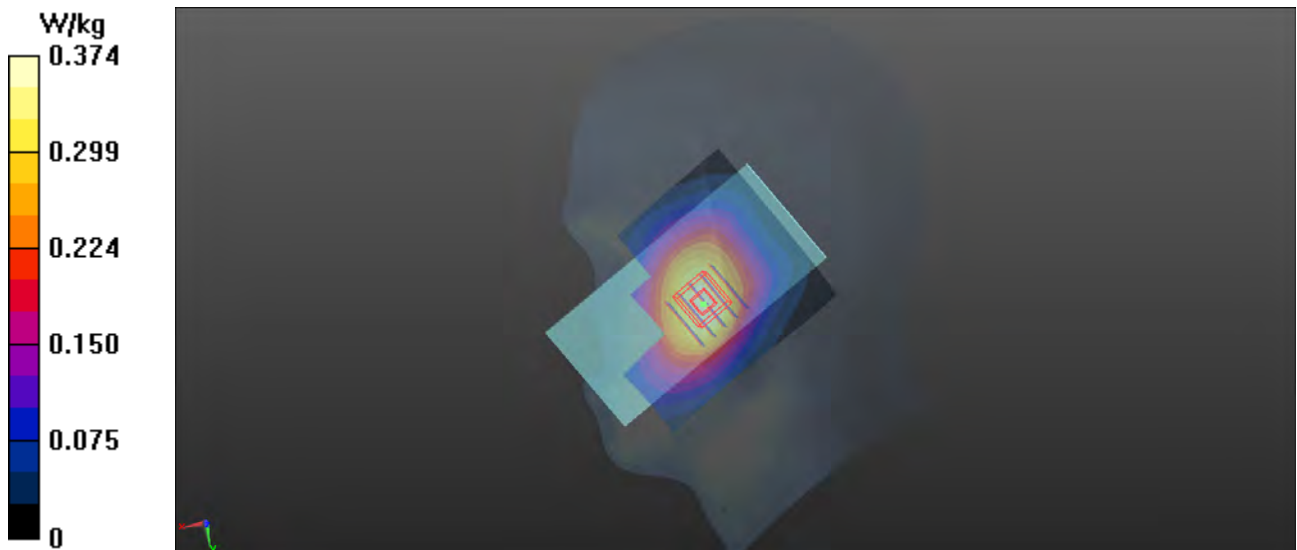
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.544 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.335 W/kg ; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.375 W/kg



P06 LTE 2_QPSK20M_Right Cheek_18900_1RB_50 Offset_Battery 2

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 40.188$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(5.13, 5.13, 5.13); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.414 W/kg

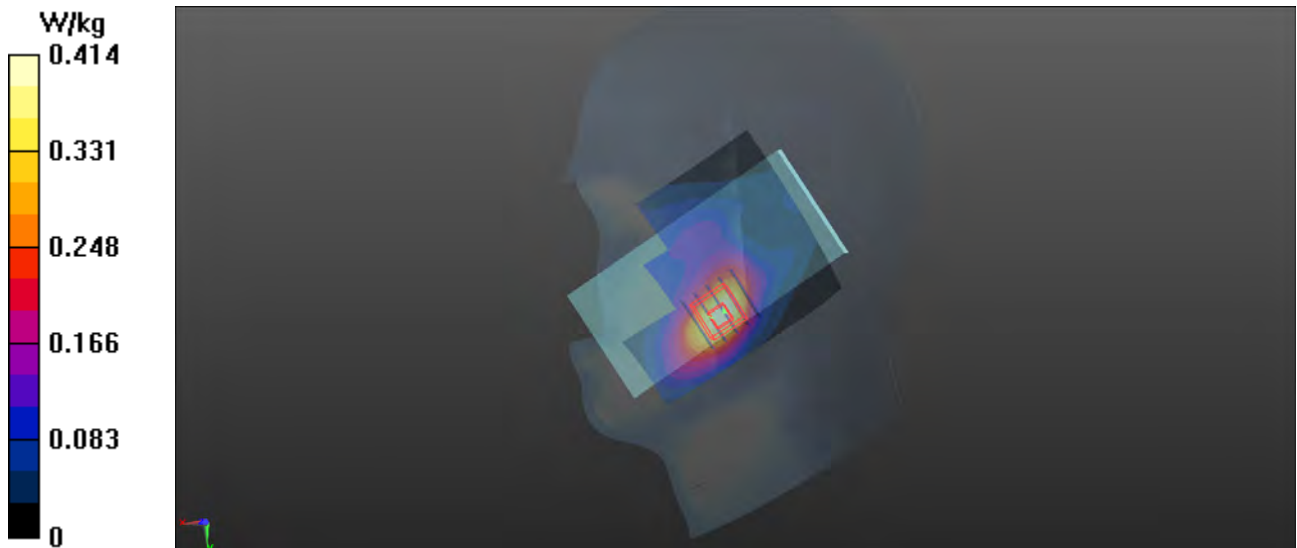
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.819 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.217 W/kg

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



P07 LTE 4_QPSK20M_Right Cheek_20050_1RB_0 Offset_Battery 2

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: HSL1750 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.311$ S/m; $\epsilon_r = 39.077$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(5.33, 5.33, 5.33); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.335 W/kg

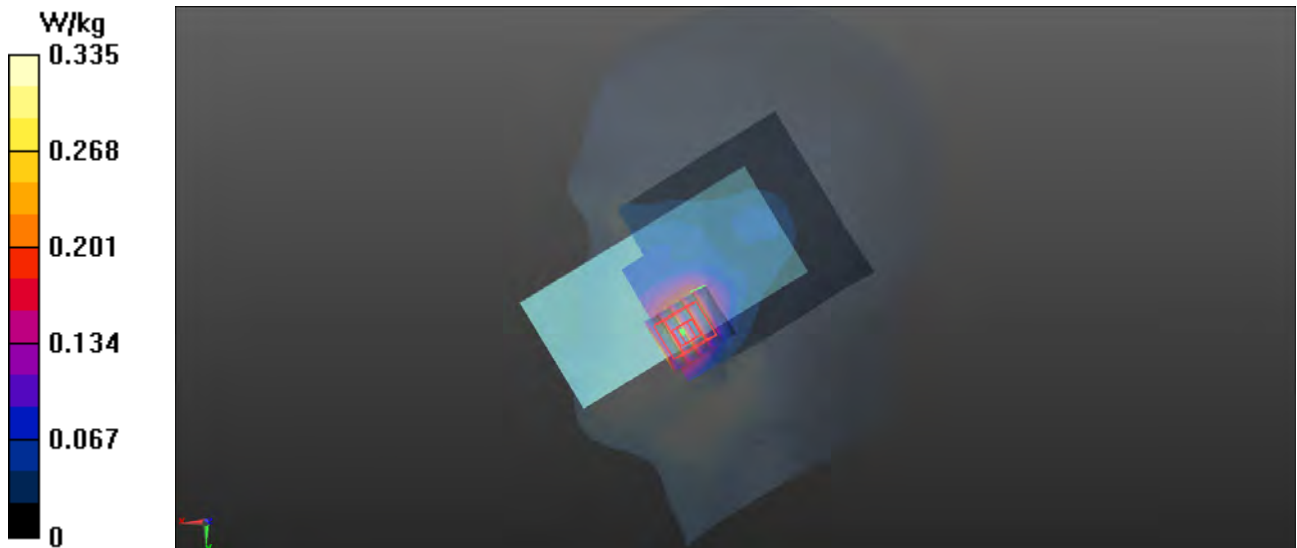
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.552 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.191 W/kg

Maximum value of SAR (measured) = 0.336 W/kg



P08 LTE 5_QPSK10M_Right Cheek_20450_1RB_49 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 829 MHz;Duty Cycle: 1:1

Medium: HSL850 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 43.051$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.13, 6.13, 6.13); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.352 W/kg

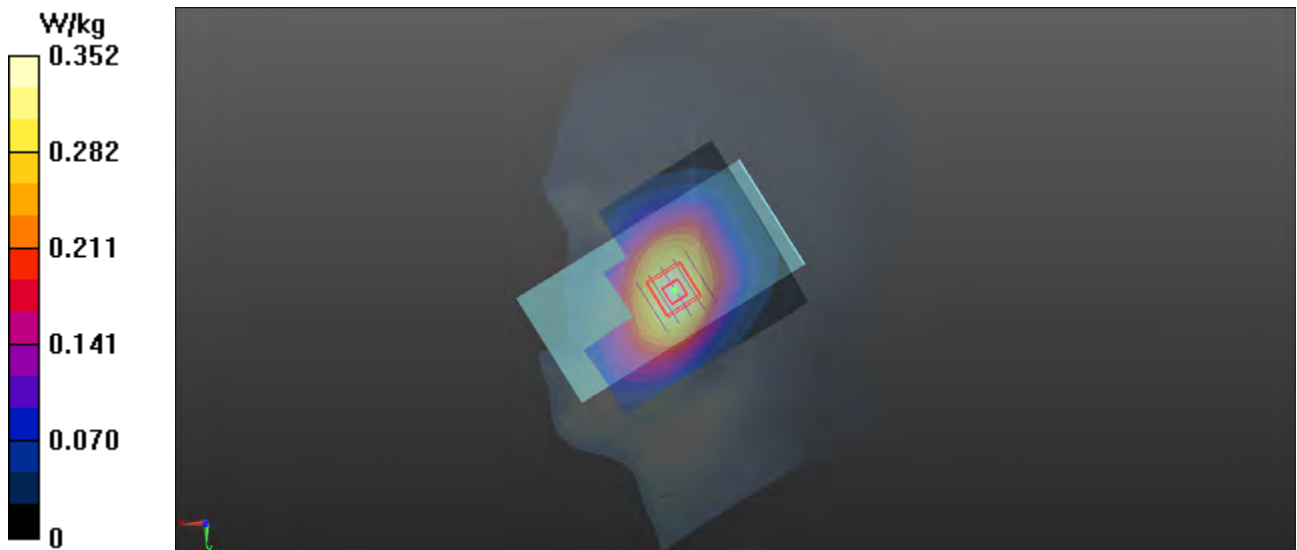
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.046 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.414 W/kg

SAR(1 g) = 0.319 W/kg ; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 0.355 W/kg



P09 LTE 7_QPSK20M_Left Cheek_20850_50RB_25 Offset_Battery 2

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 2510 MHz;Duty Cycle: 1:1

Medium: HSL2600 Medium parameters used: $f = 2510 \text{ MHz}$; $\sigma = 1.949 \text{ S/m}$; $\epsilon_r = 38.66$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.74, 4.74, 4.74); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.242 W/kg

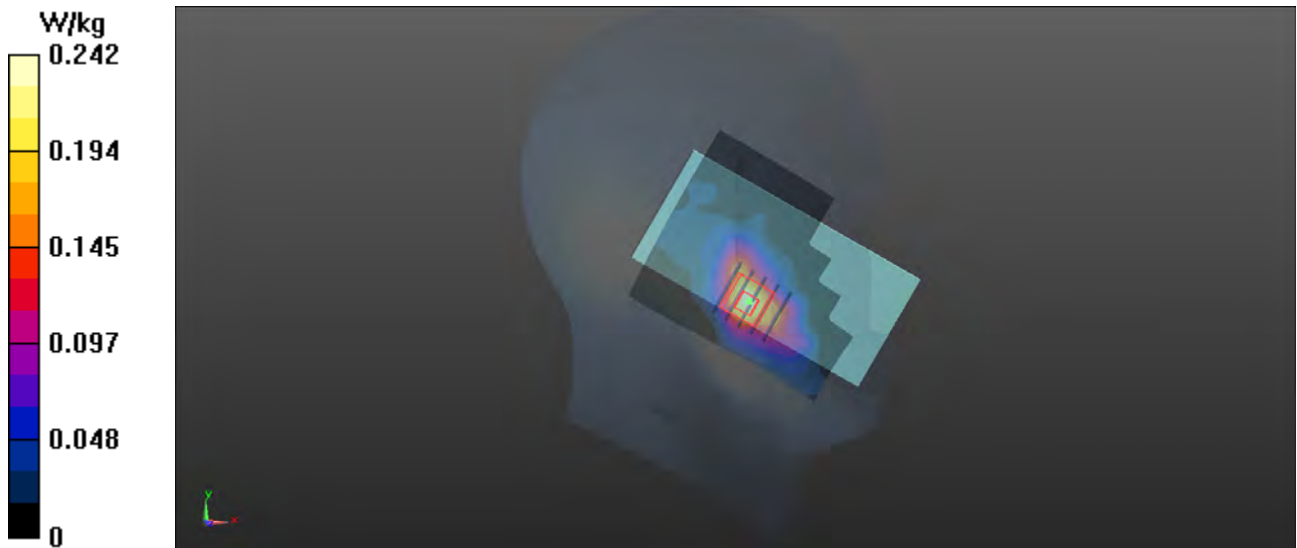
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.915 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.222 W/kg



P10 802.11b_Right Cheek_6_Battery 1

DUT: EUT

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 38.16$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.74, 4.74, 4.74); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.737 W/kg

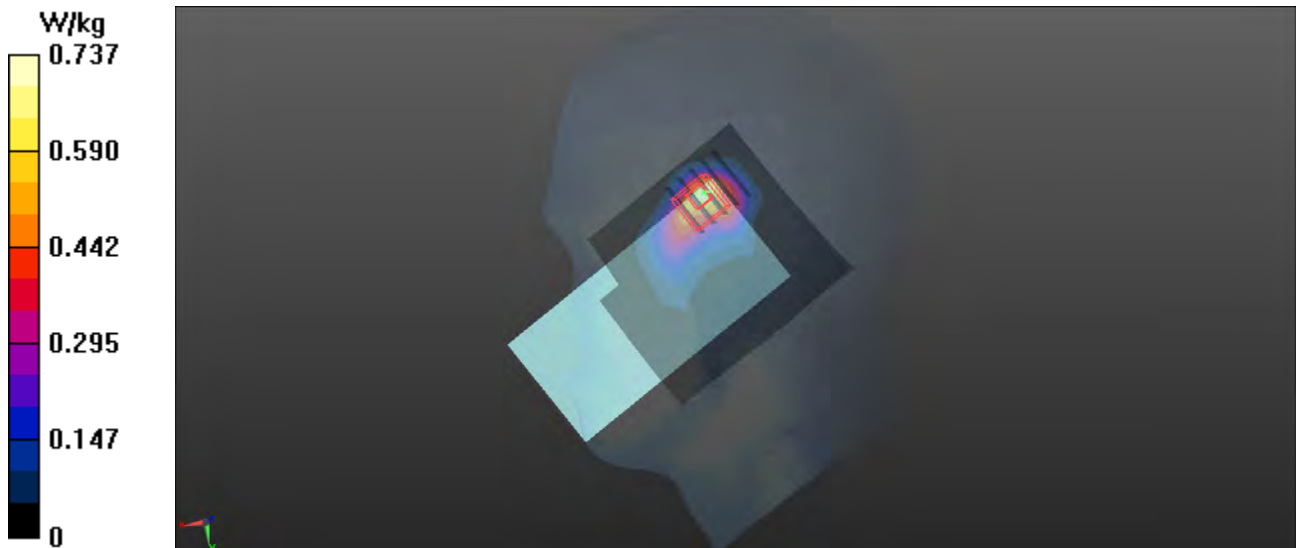
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.961 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.230 W/kg

Maximum value of SAR (measured) = 0.643 W/kg



P11 GSM850_GPRS10_Rear Face_1cm_251_Battery 2

DUT: EUT

Communication System: UID 0, GPRS 2TX (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.0

Medium: MSL850 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.933$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.29, 6.29, 6.29); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (61x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.692 W/kg

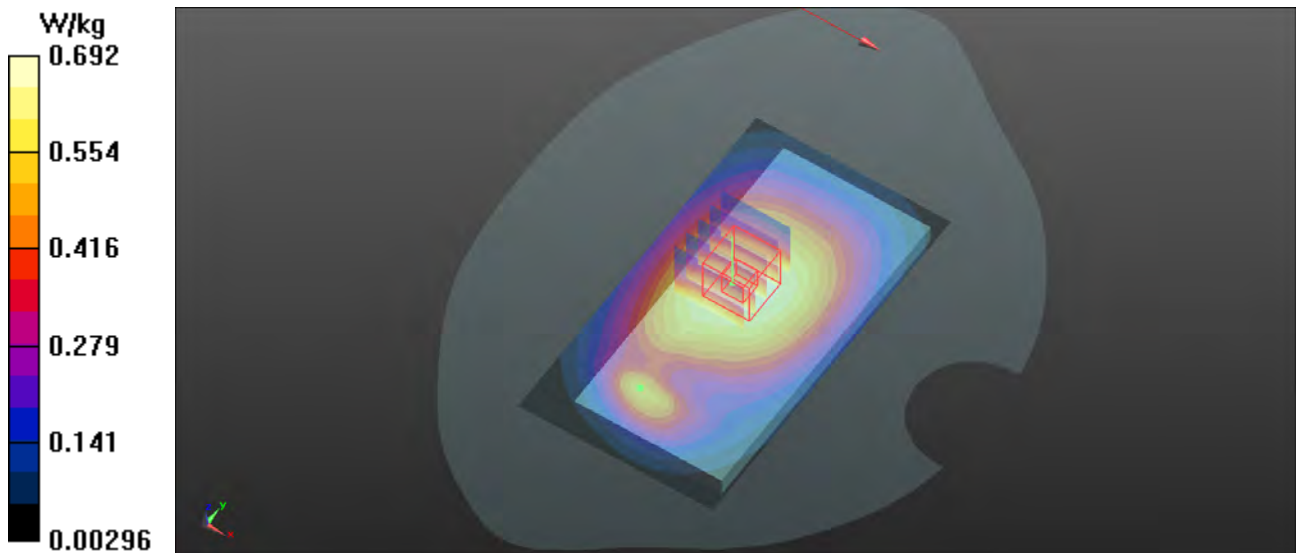
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.65 V/m ; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.814 W/kg

SAR(1 g) = 0.637 W/kg ; SAR(10 g) = 0.485 W/kg

Maximum value of SAR (measured) = 0.702 W/kg



P12 GSM1900_GPRS10_Rear Face_1cm_512_Battery 1

DUT: EUT

Communication System: UID 0, GPRS 2TX (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.0
Medium: MSL1900 Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.469$ S/m; $\epsilon_r = 53.916$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.8, 4.8, 4.8); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.523 W/kg

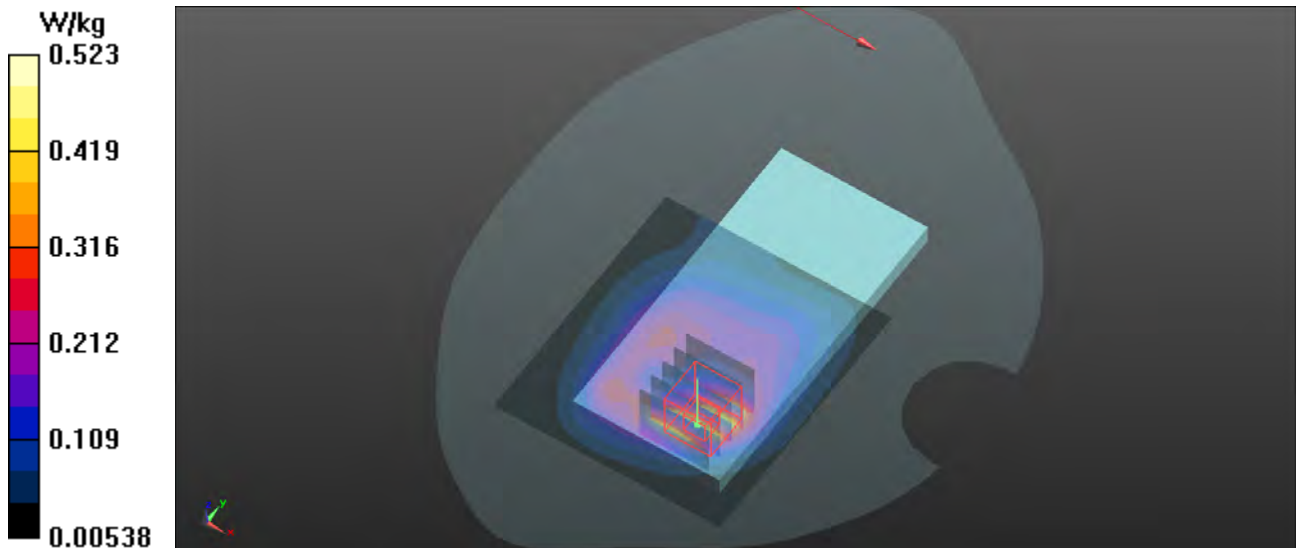
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.955 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.499 W/kg



P13 WCDMA II_RMC12.2K_Rear Face_1cm_9538_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: MSL1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.543 \text{ S/m}$; $\epsilon_r = 53.702$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.8, 4.8, 4.8); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.754 W/kg

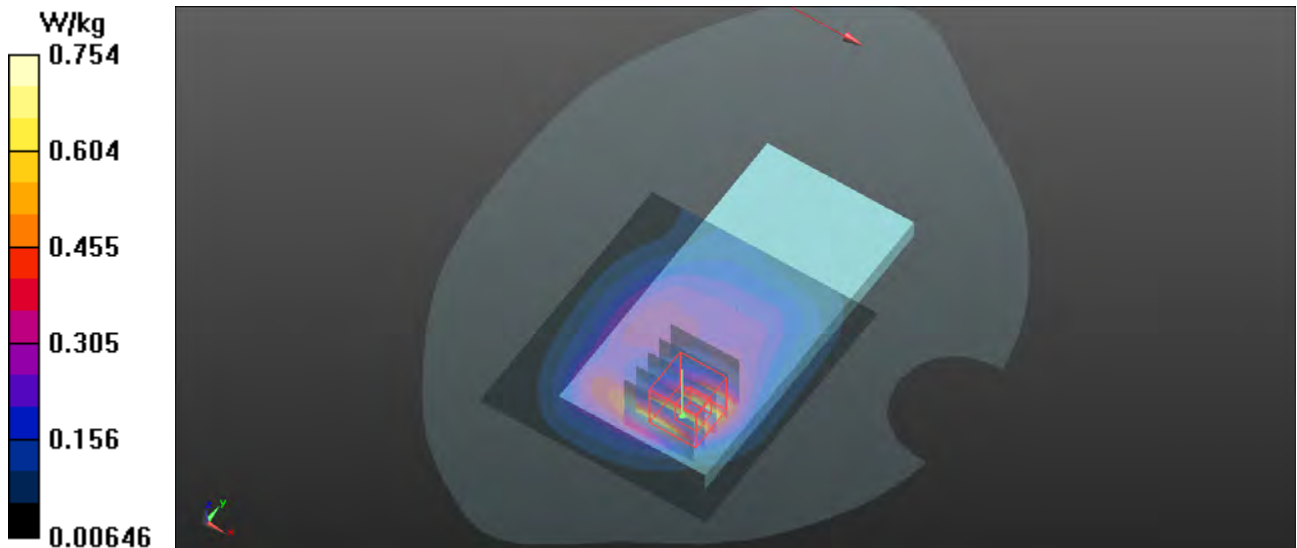
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.85 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 0.706 W/kg



P14 WCDMA IV_RMC12.2K_Rear Face_1cm_1413_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
 Medium: MSL1750 Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.453 \text{ S/m}$; $\epsilon_r = 53.722$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.99, 4.99, 4.99); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.790 W/kg

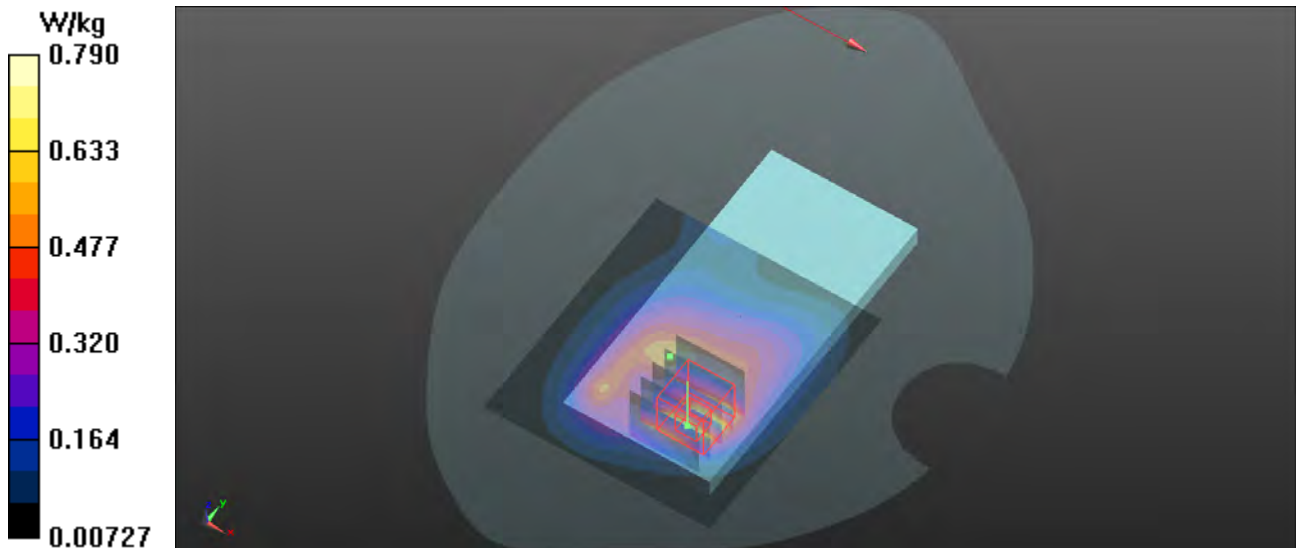
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.777 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.653 W/kg ; SAR(10 g) = 0.371 W/kg

Maximum value of SAR (measured) = 0.802 W/kg



P15 WCDMA V_RMC12.2K_Rear Face_1cm_4233_Battery 2

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL850 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 1.007 \text{ S/m}$; $\epsilon_r = 55.954$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.29, 6.29, 6.29); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (61x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.481 W/kg

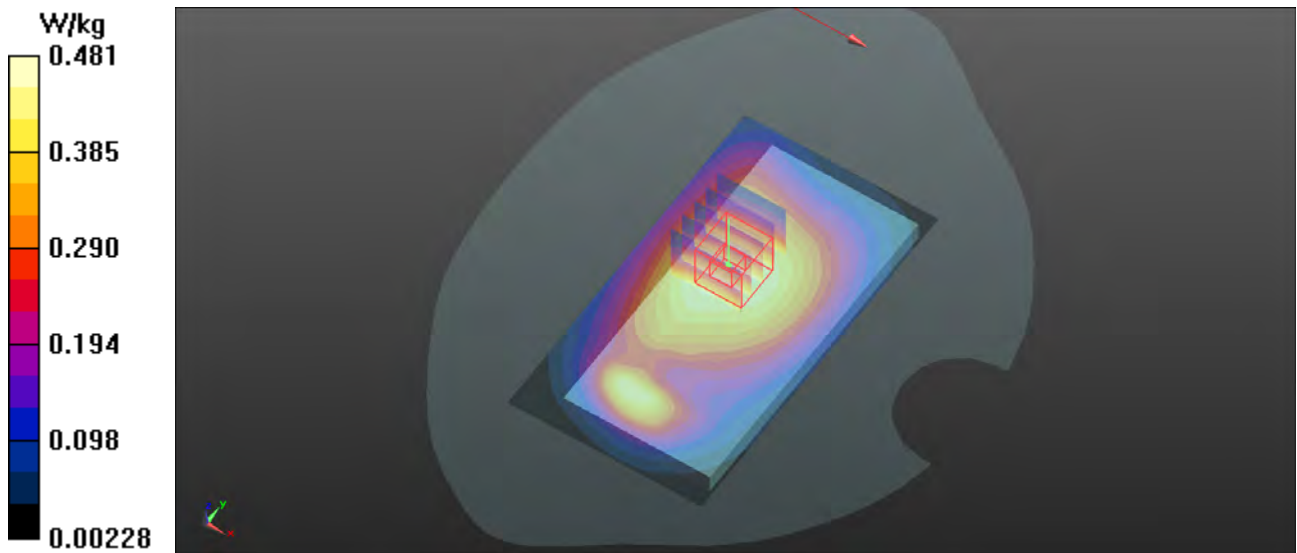
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.07 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.431 W/kg ; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 0.476 W/kg



P16 LTE 2_QPSK20M_Rear Face_1cm_18900_1RB_50 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.507$ S/m; $\epsilon_r = 53.803$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.8, 4.8, 4.8); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.944 W/kg

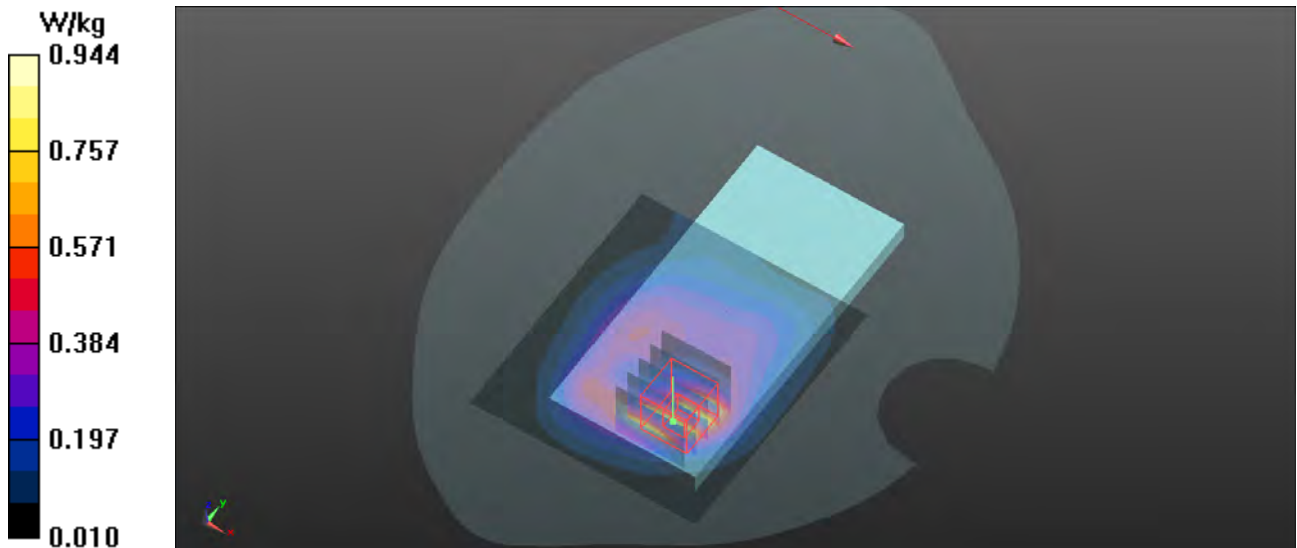
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.99 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.69 W/kg; SAR(10 g) = 0.404 W/kg

Maximum value of SAR (measured) = 0.883 W/kg



P17 LTE 4_QPSK20M_Rear Face_1cm_20050_1RB_0 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: MSL1750 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 53.751$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.99, 4.99, 4.99); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.778 W/kg

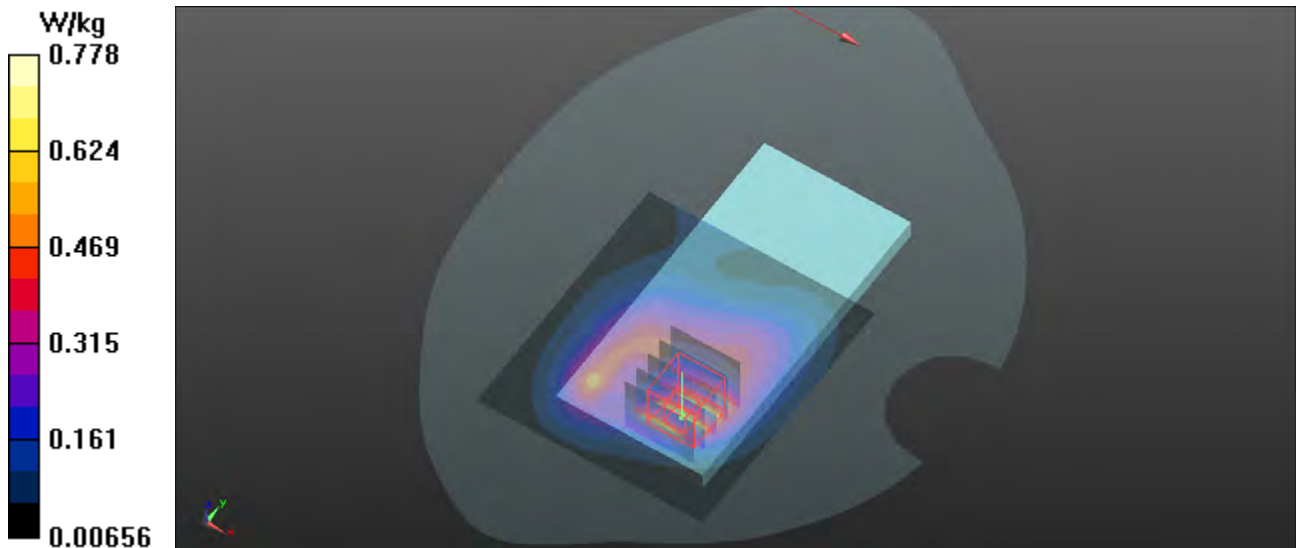
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.993 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.358 W/kg

Maximum value of SAR (measured) = 0.789 W/kg



P18 LTE 5_QPSK10M_Rear Face_1cm_20450_1RB_49Offset_Battery 2

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium: MSL850 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.989 \text{ S/m}$; $\epsilon_r = 56.143$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.29, 6.29, 6.29); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.565 W/kg

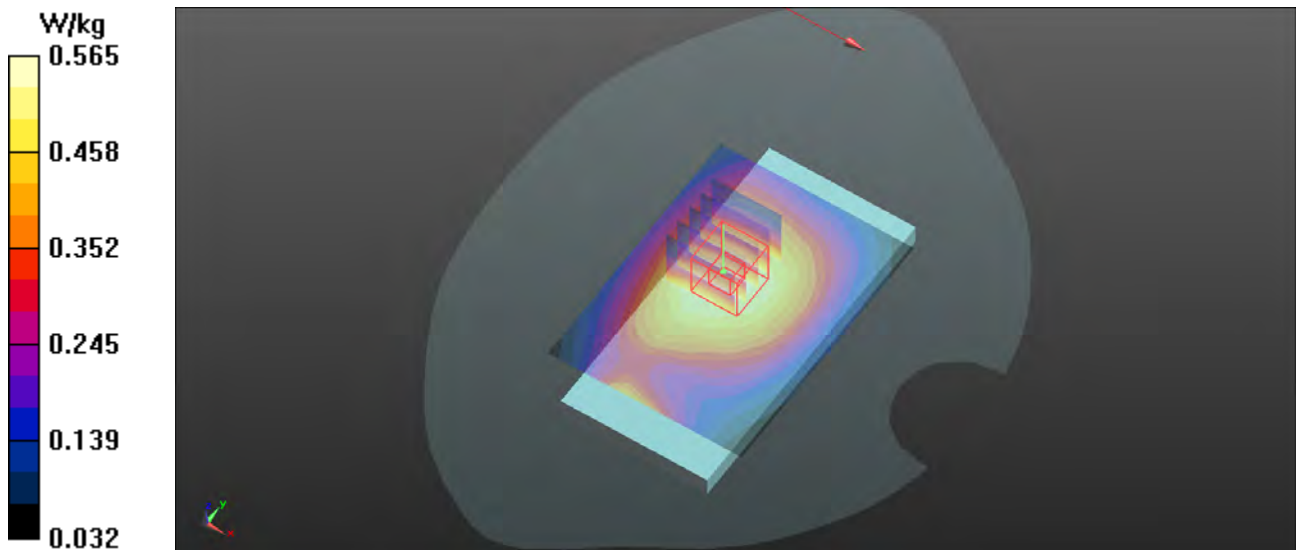
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.90 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.508 W/kg ; SAR(10 g) = 0.387 W/kg

Maximum value of SAR (measured) = 0.559 W/kg



P19 LTE 7_QPSK20M_Rear Face_1.0cm_20850_1RB_99 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 2510 MHz;Duty Cycle: 1:1
 Medium: MSL2600 Medium parameters used: $f = 2510$ MHz; $\sigma = 2.091$ S/m; $\epsilon_r = 52.725$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.57, 4.57, 4.57); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.565 W/kg

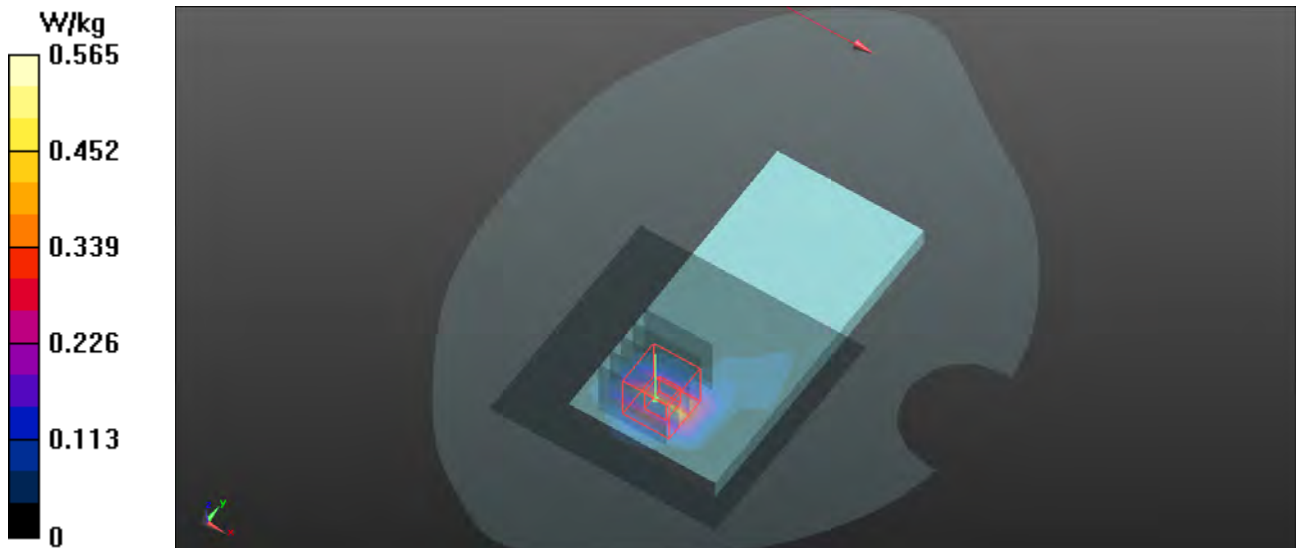
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.553 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.732 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.468 W/kg



P20 802.11b_Rear Face_1cm_6_Battery 2

DUT: EUT

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.989$ S/m; $\epsilon_r = 53.098$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.57, 4.57, 4.57); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.169 W/kg

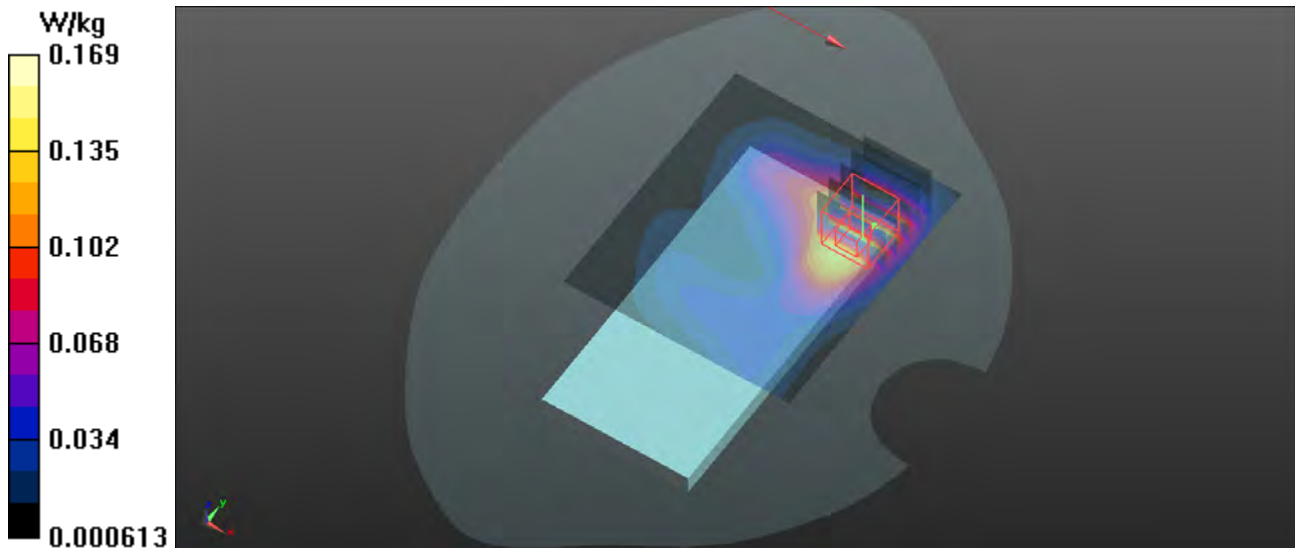
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.350 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.167 W/kg



P21 GSM850_GSM_Rear Face_1.5cm_251_Battery 2

DUT: EUT

Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: MSL850 Medium parameters used: $f = 849 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.933$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.29, 6.29, 6.29); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.267 W/kg

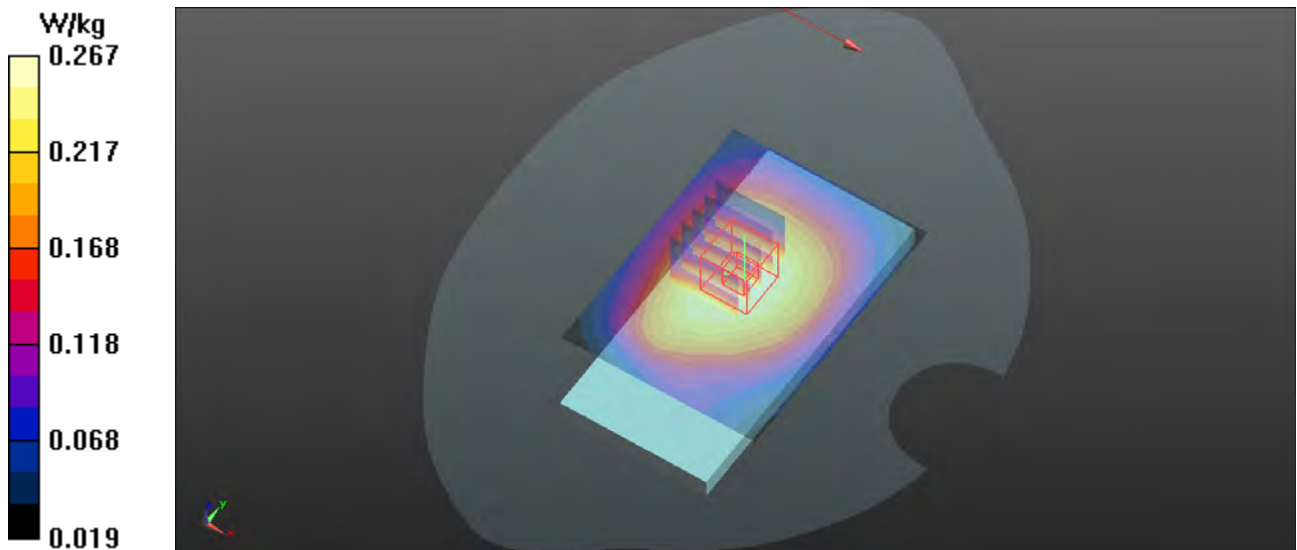
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.58 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.243 W/kg ; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.267 W/kg



P22 GSM1900_GSM_Rear Face_1.5cm_512_Battery 1

DUT: EUT

Communication System: UID 0, GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
 Medium: MSL1900 Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.469$ S/m; $\epsilon_r = 53.916$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.8, 4.8, 4.8); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.145 W/kg

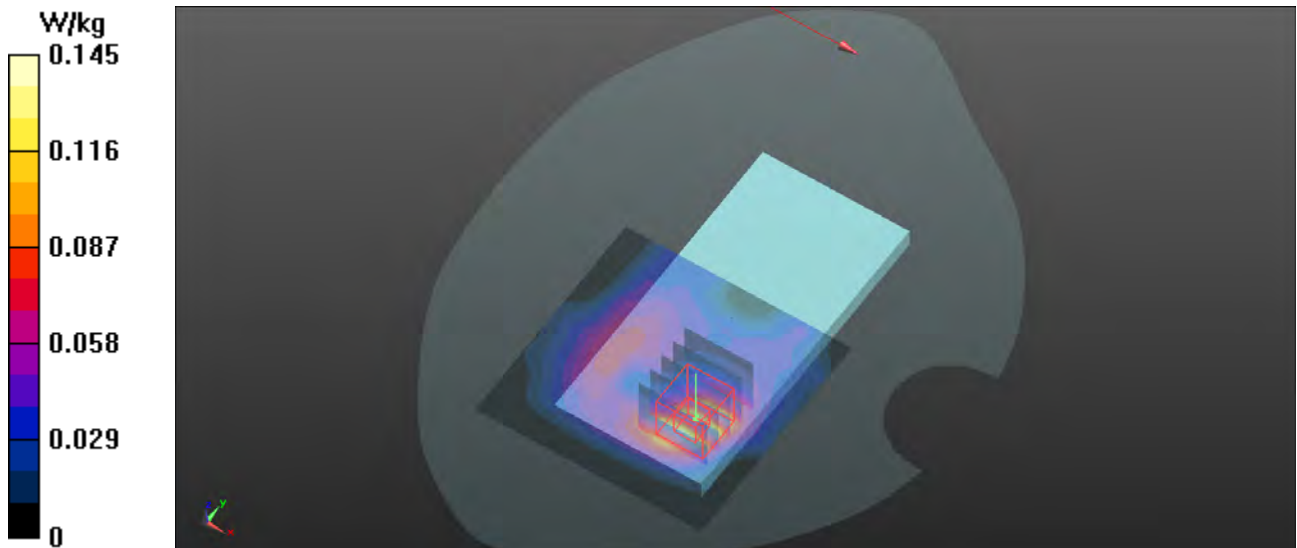
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.906 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.148 W/kg



P23 WCDMA II_RMC12.2K_Rear Face_1.5cm_9538_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
 Medium: MSL1900 Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.543 \text{ S/m}$; $\epsilon_r = 53.702$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.8, 4.8, 4.8); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.298 W/kg

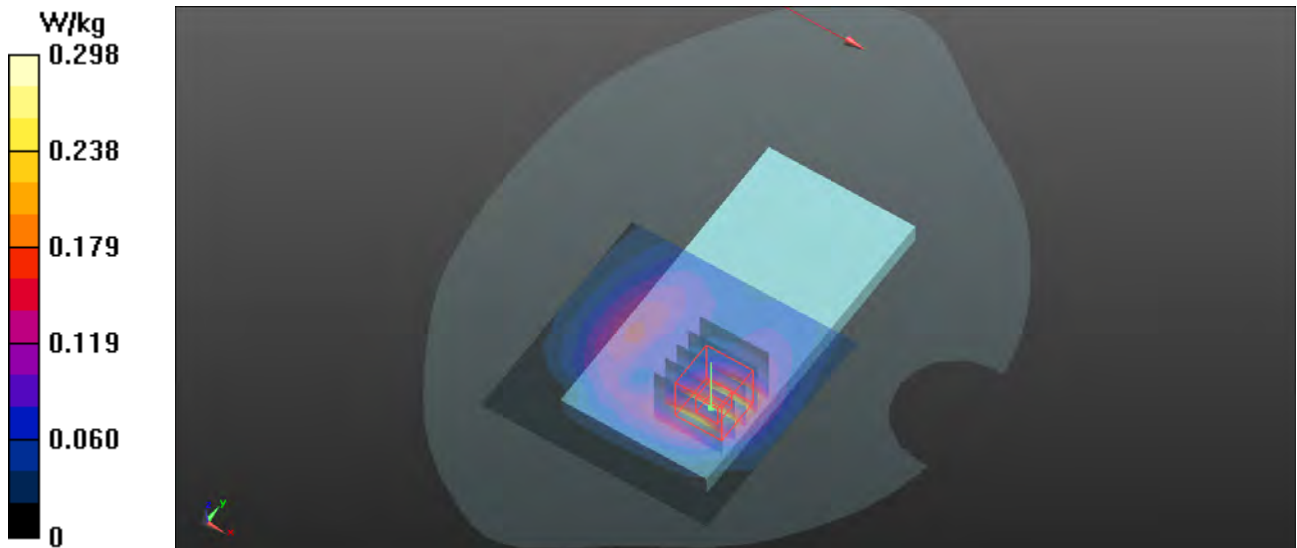
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.599 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.419 W/kg

SAR(1 g) = 0.243 W/kg ; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.299 W/kg



P24 WCDMA IV_RMC12.2K_Rear Face_1.5cm_1413_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium: MSL1750 Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.453 \text{ S/m}$; $\epsilon_r = 53.722$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.99, 4.99, 4.99); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.240 W/kg

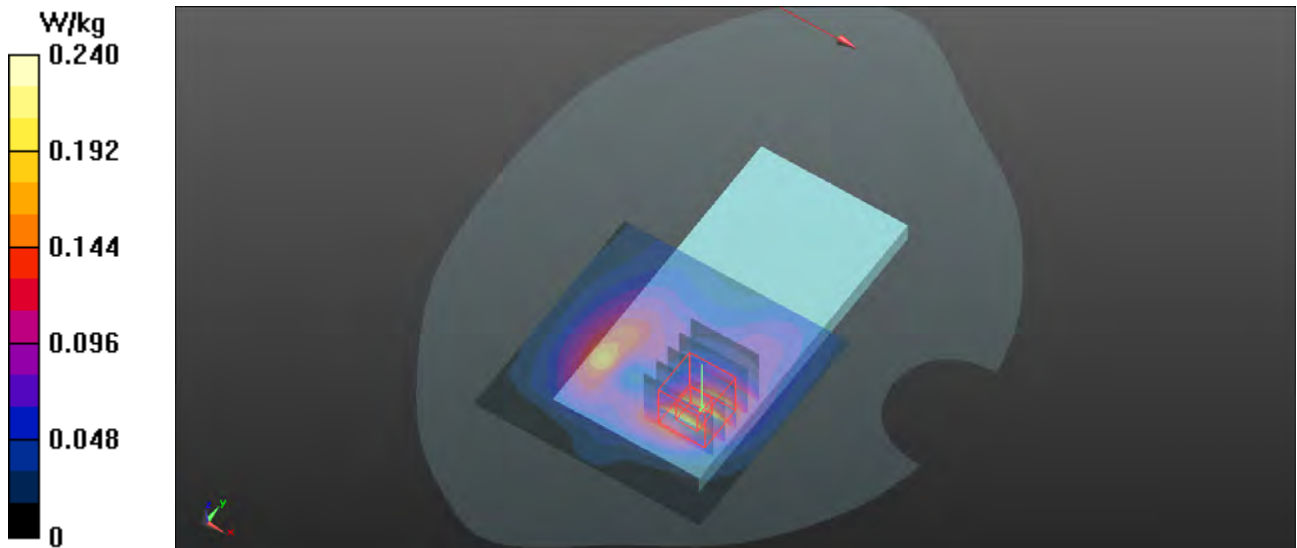
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.434 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.197 W/kg ; SAR(10 g) = 0.111 W/kg

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



P25 WCDMA V_RMC12.2K_Rear Face_1.5cm_4233_Battery 1

DUT: EUT

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL850 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 1.007 \text{ S/m}$; $\epsilon_r = 55.954$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.29, 6.29, 6.29); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (61x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.279 W/kg

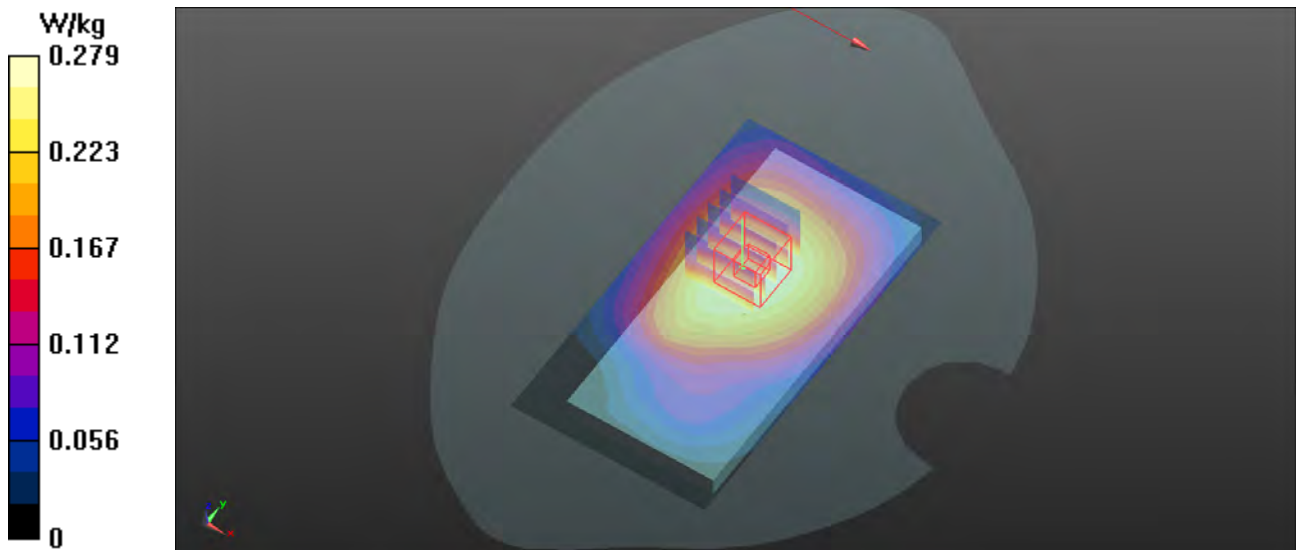
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.78 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.249 W/kg ; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 0.276 W/kg



P26 LTE 2_QPSK20M_Rear Face_1.5cm_18900_1RB_50 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.507$ S/m; $\epsilon_r = 53.803$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.8, 4.8, 4.8); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.300 W/kg

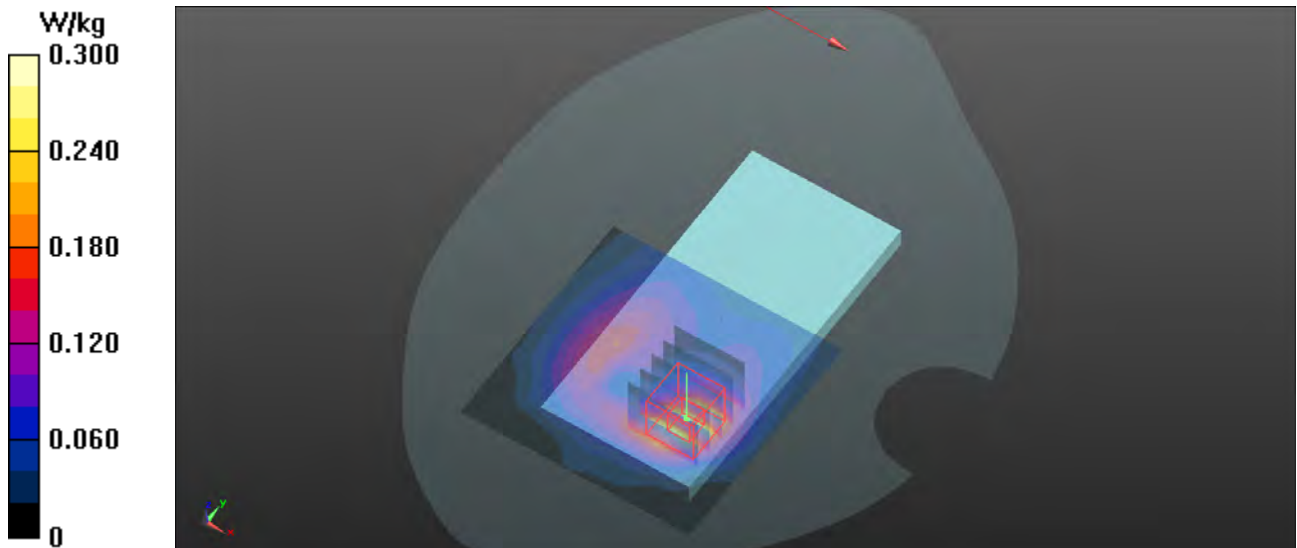
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.275 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.300 W/kg



P27 LTE 4_QPSK20M_Rear Face_1.5cm_20050_1RB_0 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: MSL1750 Medium parameters used: $f = 1720$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 53.751$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.99, 4.99, 4.99); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.202 W/kg

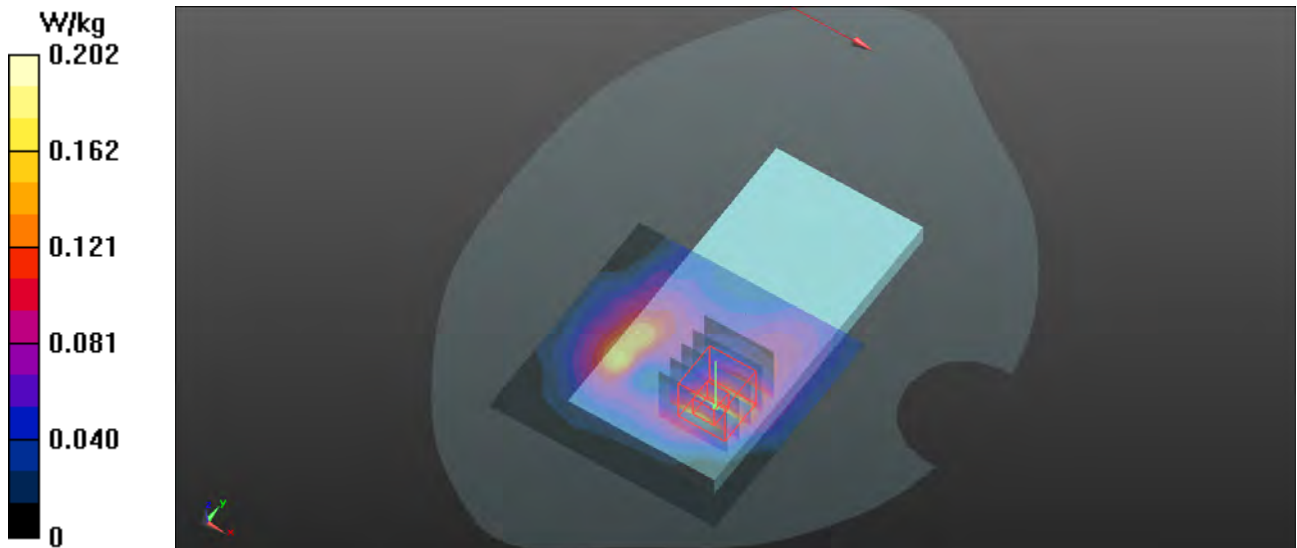
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.036 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.198 W/kg



P28 LTE 5_QPSK10M_Rear Face_1.5cm_20450_1RB_49 Offset_Battery 1

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 829 MHz;Duty Cycle: 1:1

Medium: MSL850 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.989 \text{ S/m}$; $\epsilon_r = 56.143$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(6.29, 6.29, 6.29); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.315 W/kg

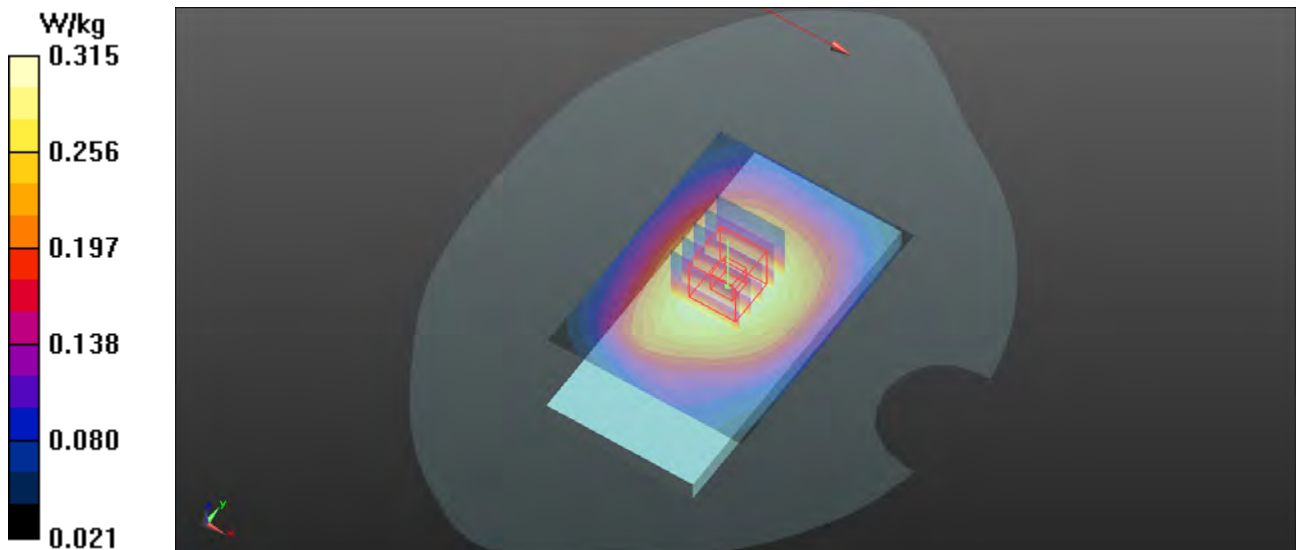
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.27 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.285 W/kg ; SAR(10 g) = 0.214 W/kg

Maximum value of SAR (measured) = 0.316 W/kg



P29 LTE 7_QPSK20M_Rear Face_1.5cm_20850_1RB_50 Offset_Battery 2

DUT: EUT

Communication System: UID 0, LTE FDD (0); Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: MSL2600 Medium parameters used: $f = 2510$ MHz; $\sigma = 2.091$ S/m; $\epsilon_r = 52.725$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.57, 4.57, 4.57); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.586 W/kg

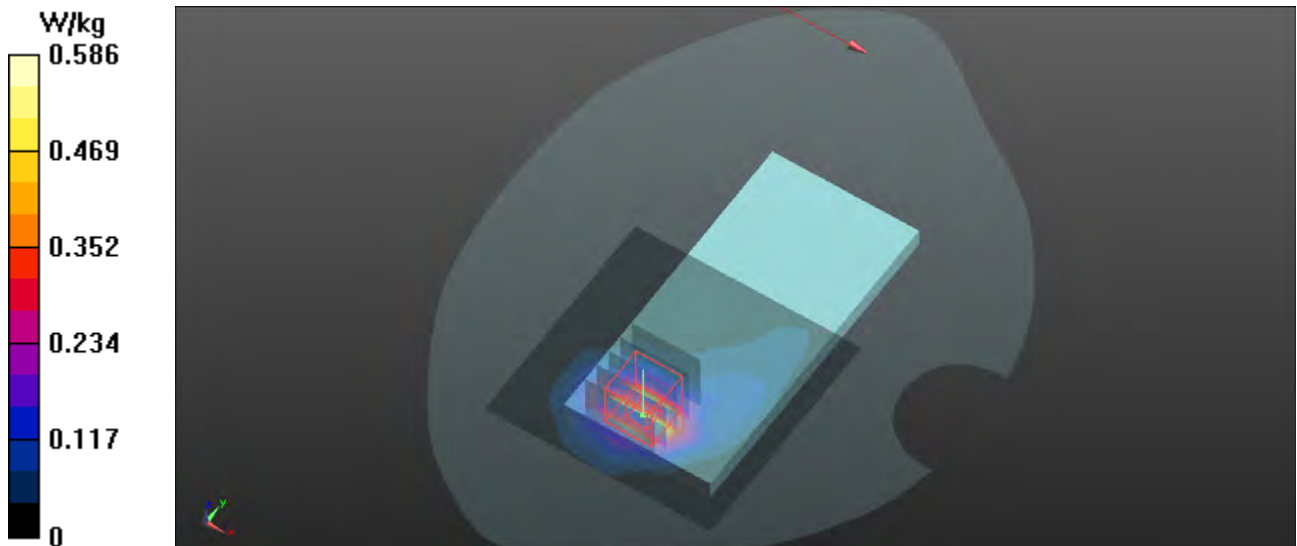
Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.392 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.591 W/kg



P30 802.11b_Front Face_1.5cm_6_Battery 2

DUT: EUT

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.989$ S/m; $\epsilon_r = 53.098$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: ES3DV3 - SN3240; ConvF(4.57, 4.57, 4.57); Calibrated: 3/28/2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn420; Calibrated: 3/22/2018
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1469
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Configuration/Test/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0894 W/kg

Configuration/Test/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.634 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.061 W/kg

Maximum value of SAR (measured) = 0.153 W/kg

