

Test Laboratory: BTL Inc.

Date: 12/12/2015

T01_GSM 850_CH190_Right Cheek

DUT: 1512C068;

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

Medium parameters used (interpolated): $f = 837$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 43.162$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(9.75, 9.75, 9.75); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (11x16x1): Interpolated grid: dx=15 mm, dy=15 mm

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

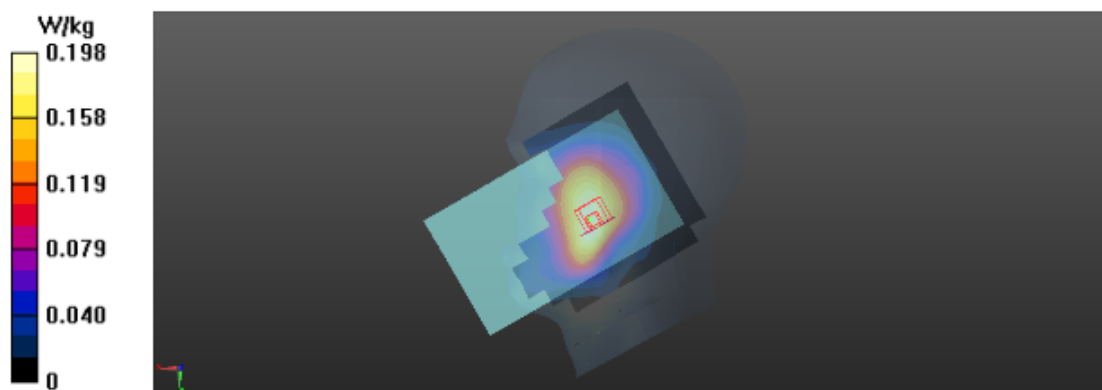
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.137 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.218 W/kg

SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.196 W/kg



Test Laboratory: BTL Inc.

Date: 12/12/2015

T06_GSM 1900_CH661_Right Cheek

DUT: 1512C068;

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.208$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.23, 8.23, 8.23); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (11x16x1): Interpolated grid: dx=15 mm, dy=15

mm Maximum value of SAR (interpolated) = 0.069 W/kg

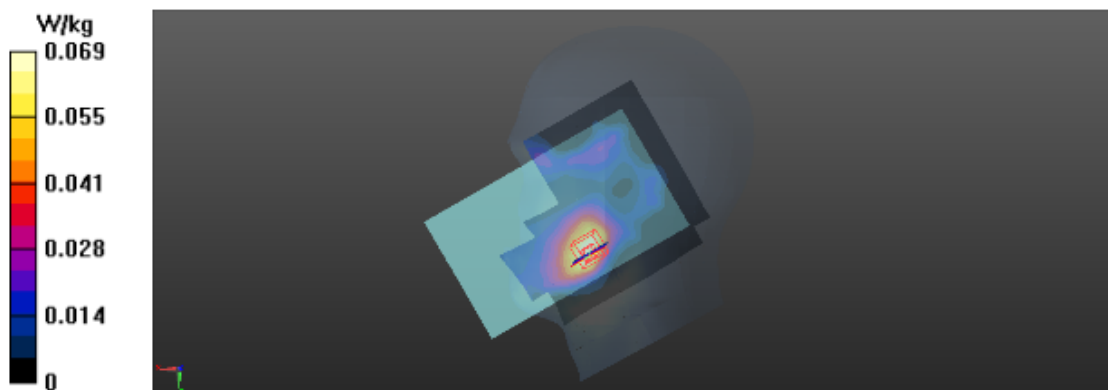
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.633 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.0830 W/kg

SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.0649 W/kg



Test Laboratory: BTL Inc.

Date: 12/12/2015

T11_WCDMA B2_RMC12.2K_CH9400_Right Cheek

DUT: 1512C068;

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.208$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.23, 8.23, 8.23); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (11x16x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.115 W/kg

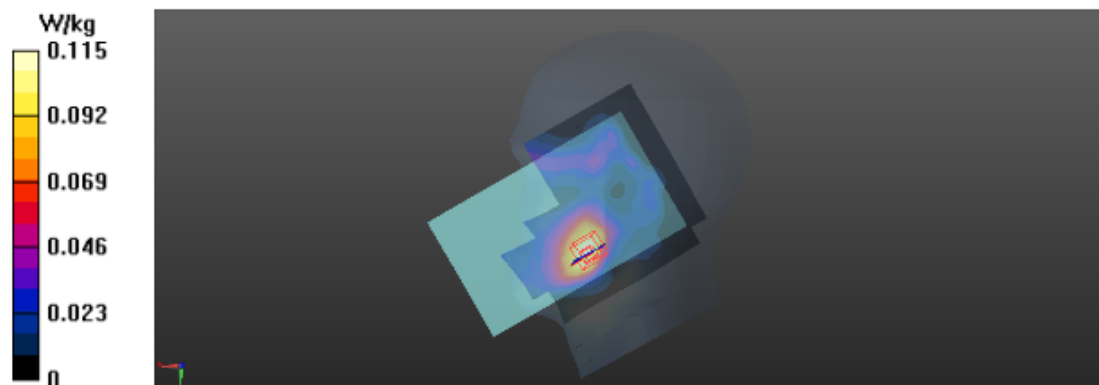
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.464 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.071 W/kg

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



Test Laboratory: BTL Inc.

Date: 12/12/2015

T16_WCDMA B5_RMC12.2K_CH4182_Right Cheek

DUT: 1512C068;

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle:
1:1 Medium parameters used: $f = 836$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 42.899$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(9.75, 9.75, 9.75); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (11x16x1): Interpolated grid: dx=15 mm, dy=15 mm

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

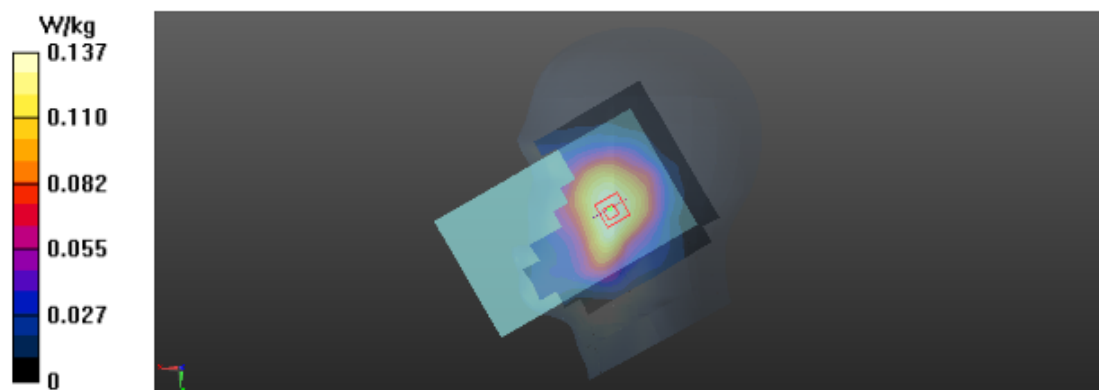
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.504 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.138 W/kg



Test Laboratory: BTL Inc.

Date: 12/11/2015

T21_802.11b_CH6_Right Cheek

DUT: 1512C068;

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2437 MHz;

Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.821$ S/m; $\epsilon_r = 39.108$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.38, 7.38, 7.38); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (13x20x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.389 W/kg

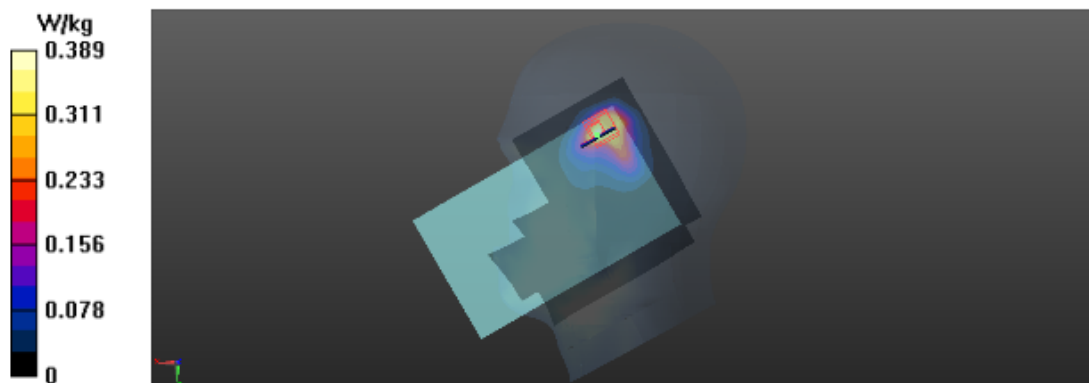
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.021 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.732 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.358 W/kg



Test Laboratory: BTL Inc.

Date: 12/15/2015

T46_GSM 850_GPRS 4TX_CH128_Rear Face_0.8cm

DUT: 1512C068;

Communication System: UID 0, GPRS 4TX (0); Frequency: 824.2 MHz; Duty Cycle: 1:2

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.964$ S/m; $\epsilon_r = 54.747$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.19, 10.19, 10.19); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (11x16x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

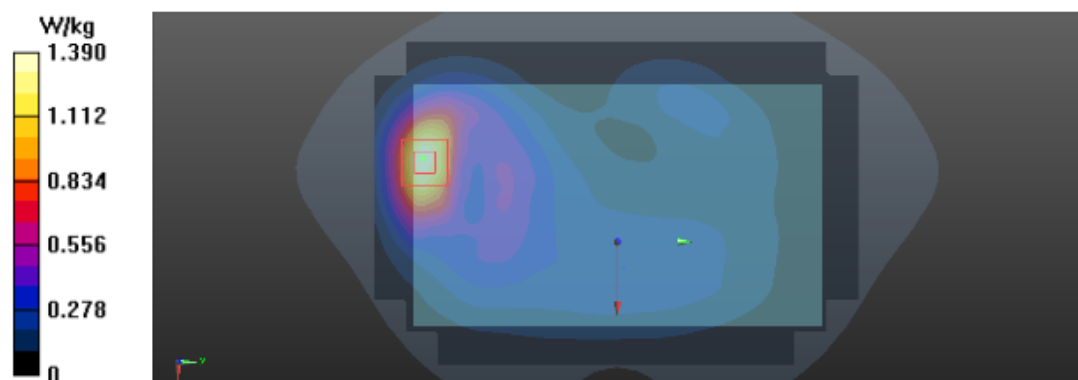
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.77 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.813 W/kg

Maximum value of SAR (measured) = 1.46 W/kg



Test Laboratory: BTL Inc.

Date: 12/16/2015

T60_GSM 1900_GPRS 4TX_CH810_Bottom Side_0.8cm

DUT: 1512C068;

Communication System: UID 0, GPRS 4TX (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.564$ S/m; $\epsilon_r = 53.748$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.86, 7.86, 7.86); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (4x11x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

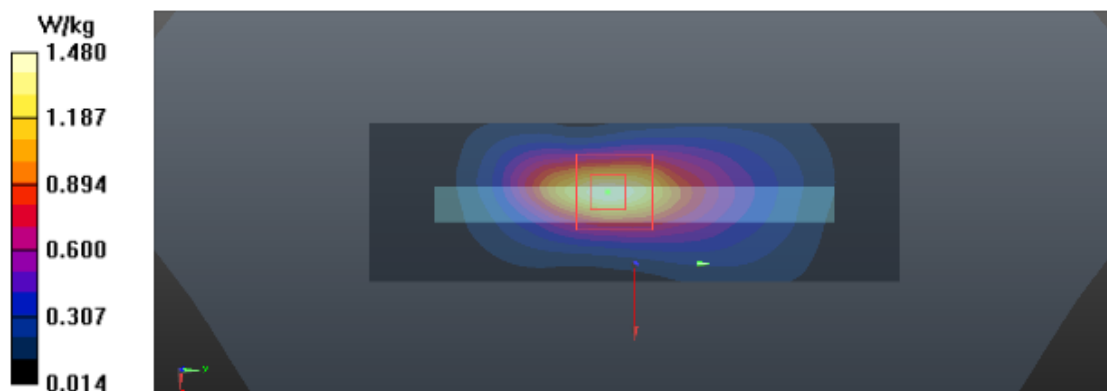
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.68 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.690 W/kg

Maximum value of SAR (measured) = 1.44 W/kg



Test Laboratory: BTL Inc.

Date: 12/16/2015

T78_WCDMA B2_RMC12.2K_CH9538_Bottom Side_0.8cm Battery 2

DUT: 1512C068;

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

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.561$ S/m; $\epsilon_r = 53.749$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.86, 7.86, 7.86); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (4x11x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

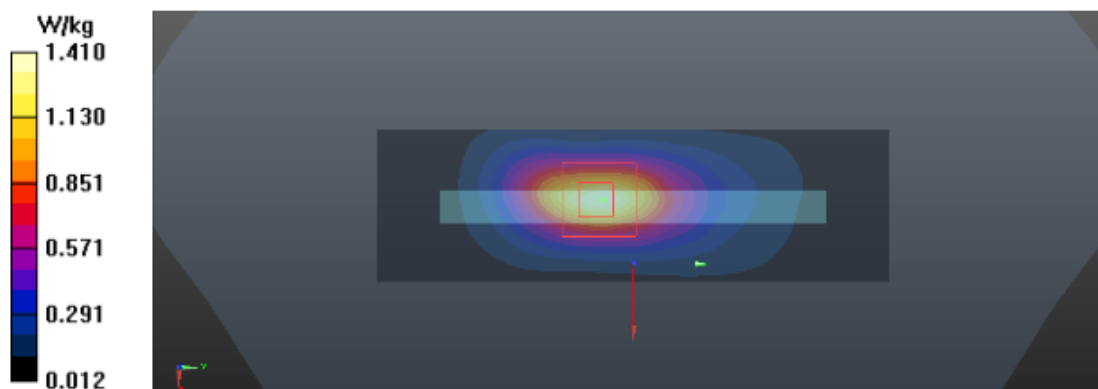
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.75 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.637 W/kg

Maximum value of SAR (measured) = 1.33 W/kg



Test Laboratory: BTL Inc.

Date: 12/15/2015

T94_WCDMA B5_RMC12.2K_CH4182_Rear Face_0.8cm Battery 2

DUT: 1512C068;

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836$ MHz; $\sigma = 0.99$ S/m; $\epsilon_r = 54.537$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.19, 10.19, 10.19); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (11x16x1): Interpolated grid: dx=15 mm, dy=15 mm

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

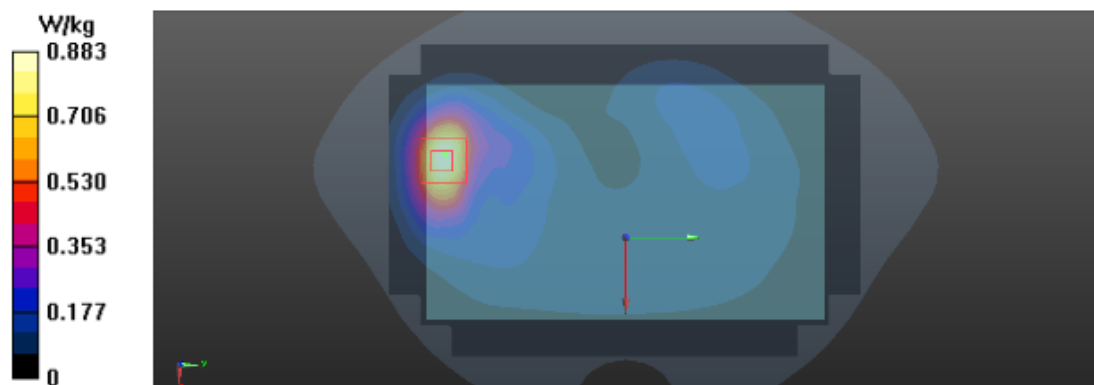
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.538 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.493 W/kg

Maximum value of SAR (measured) = 0.895 W/kg



Test Laboratory: BTL Inc.

Date: 12/16/2015

T101_802.11b_CH6_Rear Face_0cm

DUT: 1512C068;

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 51.758$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.6, 7.6, 7.6); Calibrated: 01/30/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Area Scan (13x20x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 0.6310 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.291 W/kg

Maximum value of SAR (measured) = 0.799 W/kg

