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; σ = 0.879 S/m; ε$_r$ = 43.162; ρ = 1000 kg/m³

Ambient Temperature: 23.3 ℃; Liquid Temperature: 22.4 ℃

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

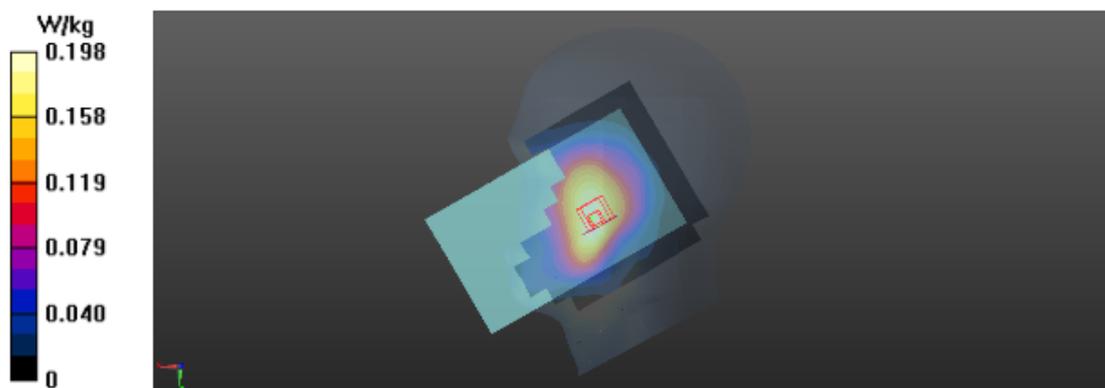Maximum value of SAR (interpolated) = 0.198 W/kg

**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

**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; $\varepsilon_r$ = 39.208; $\rho$ = 1000 kg/m$^3$

Ambient Temperature: 23.3 ℃; Liquid Temperature: 22.2 ℃

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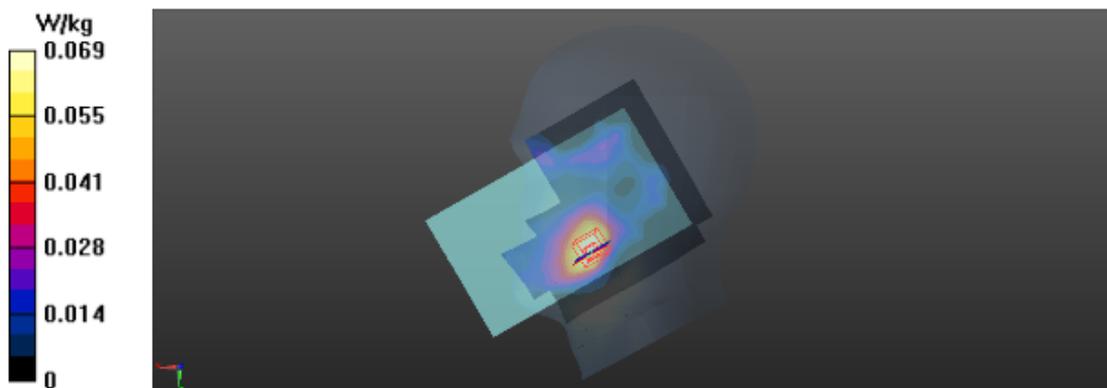
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

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

**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; σ = 1.399 S/m; ε $_r$ = 39.208; ρ = 1000 kg/m$^3$

Ambient Temperature：23.3 ℃; Liquid Temperature：22.2 ℃

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

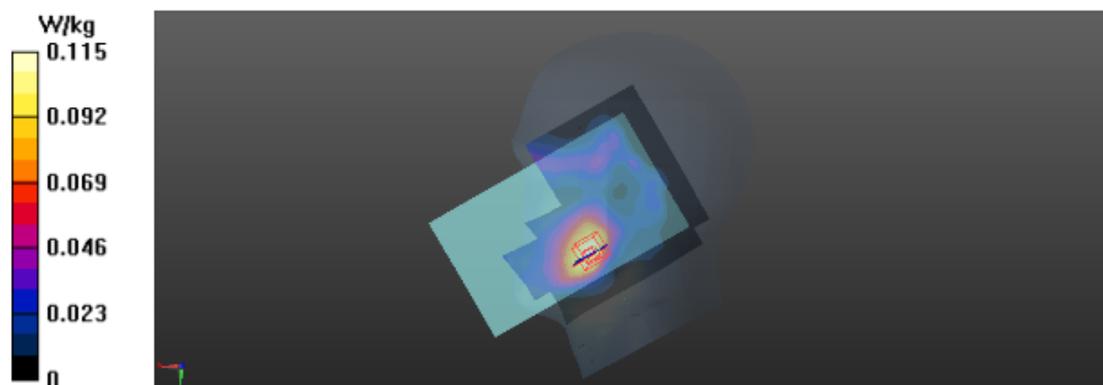Maximum value of SAR (interpolated) = 0.115 W/kg

**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

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; σ = 0.903 S/m; $\varepsilon_r$ = 42.899; ρ = 1000 kg/m$^3$ Ambient Temperature：23.3 ℃; Liquid Temperature：22.4 ℃

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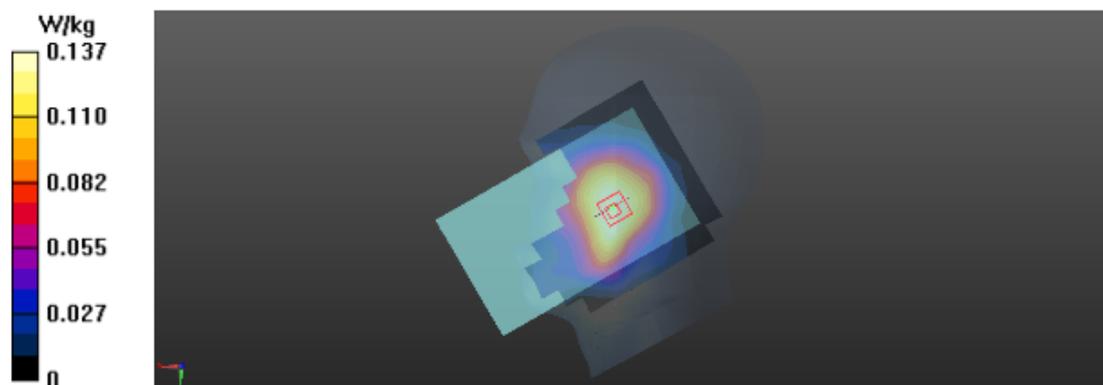Maximum value of SAR (interpolated) = 0.137 W/kg

**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

## 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; σ = 1.821 S/m; $\varepsilon_r$ = 39.108; ρ = 1000 kg/m$^3$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.4 ℃

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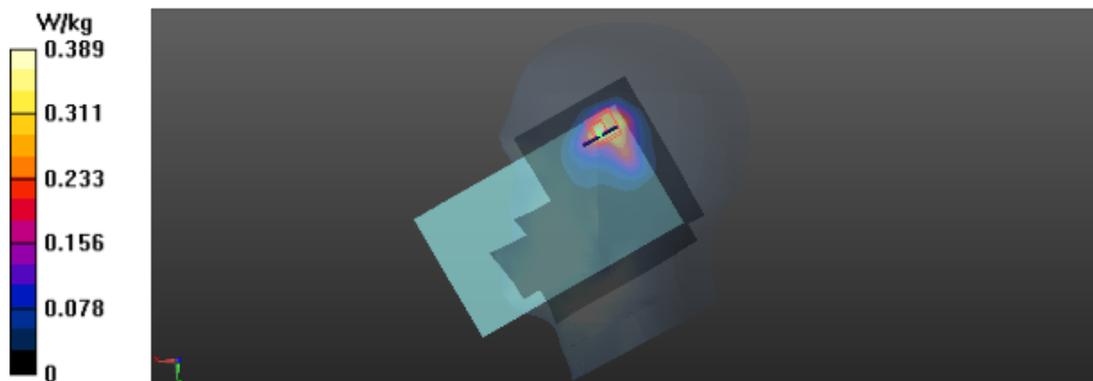Maximum value of SAR (interpolated) = 0.389 W/kg

**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

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; σ = 0.964 S/m; $\varepsilon_r$ = 54.747; ρ = 1000 kg/m³

Ambient Temperature: 23.4 ℃;  Liquid Temperature: 22.3  ℃

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

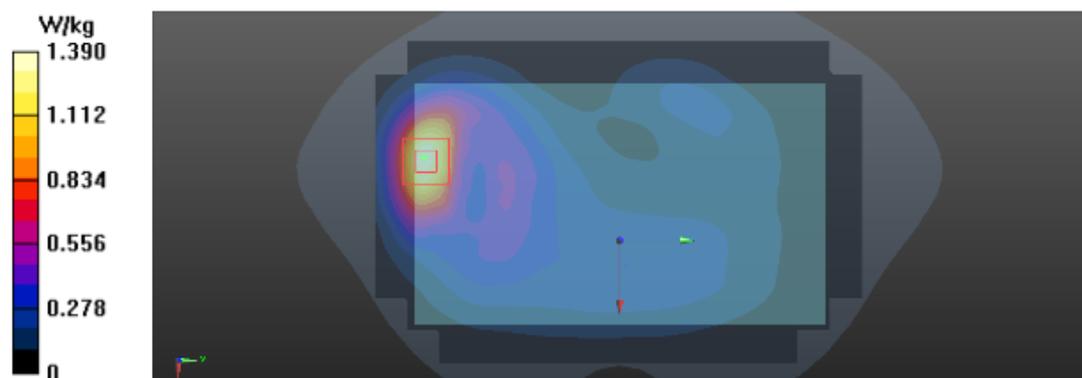Maximum value of SAR (interpolated) = 1.39 W/kg

**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

## 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; $\varepsilon_r$ = 53.748; $\rho$ = 1000 kg/m$^3$

Ambient Temperature: 23.2 ℃; Liquid Temperature: 22.4 ℃

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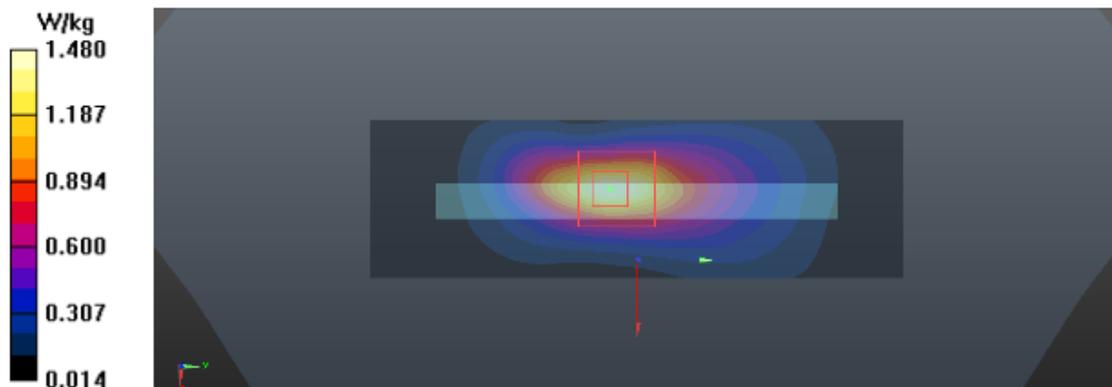
Maximum value of SAR (interpolated) = 1.48 W/kg

**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; σ = 1.561 S/m; ε$_r$ = 53.749; ρ = 1000 kg/m$^3$

Ambient Temperature: 23.2 ℃;  Liquid Temperature: 22.4  ℃


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

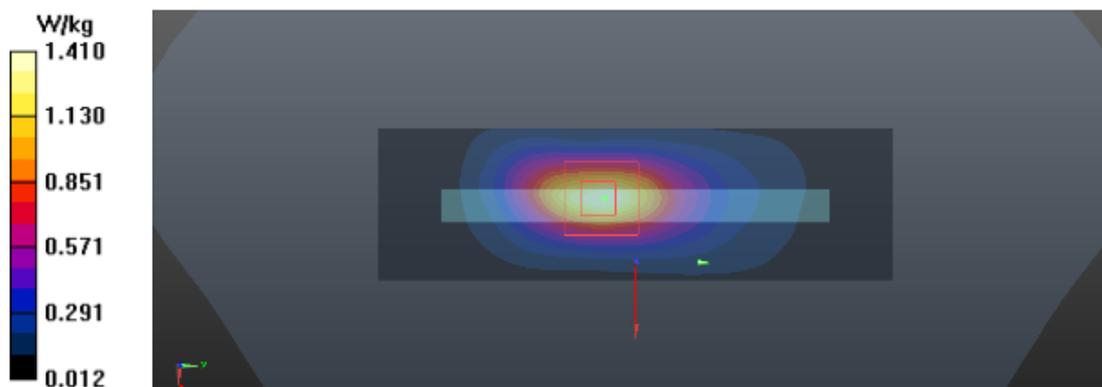Maximum value of SAR (interpolated) = 1.41 W/kg


**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

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; $\varepsilon_r$ = 54.537; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：23.4 ℃;  Liquid Temperature：22.3  ℃

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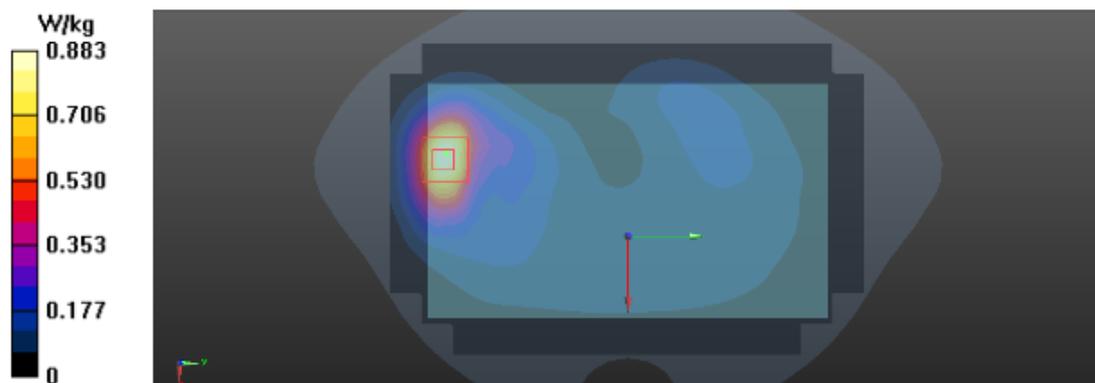Maximum value of SAR (interpolated) = 0.883 W/kg

**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; σ = 1.98 S/m; ε$_r$ = 51.758; ρ = 1000 kg/m$^3$

Ambient Temperature：23.3 ℃；  Liquid Temperature：22.5  ℃

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