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Test Laboratory: Compliance Certification Services Inc.

Date: 4/5/2013

WIFI-Body-Front Low CH1

DUT: Sapphire7; Type: Sapphire7; Serial: N/A

Communication System: IEEE 802.11b; Communication System Band: ISM 2.4GHz Band; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.951 \text{ S/m}$; $\epsilon_r = 53.327$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 24.0°C; Liquid Temperature: 22.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.92, 6.92, 6.92); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.4(1052);

WIFI/IEEE802.11b Body Front Low CH1/Area Scan (9x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.930 W/kg

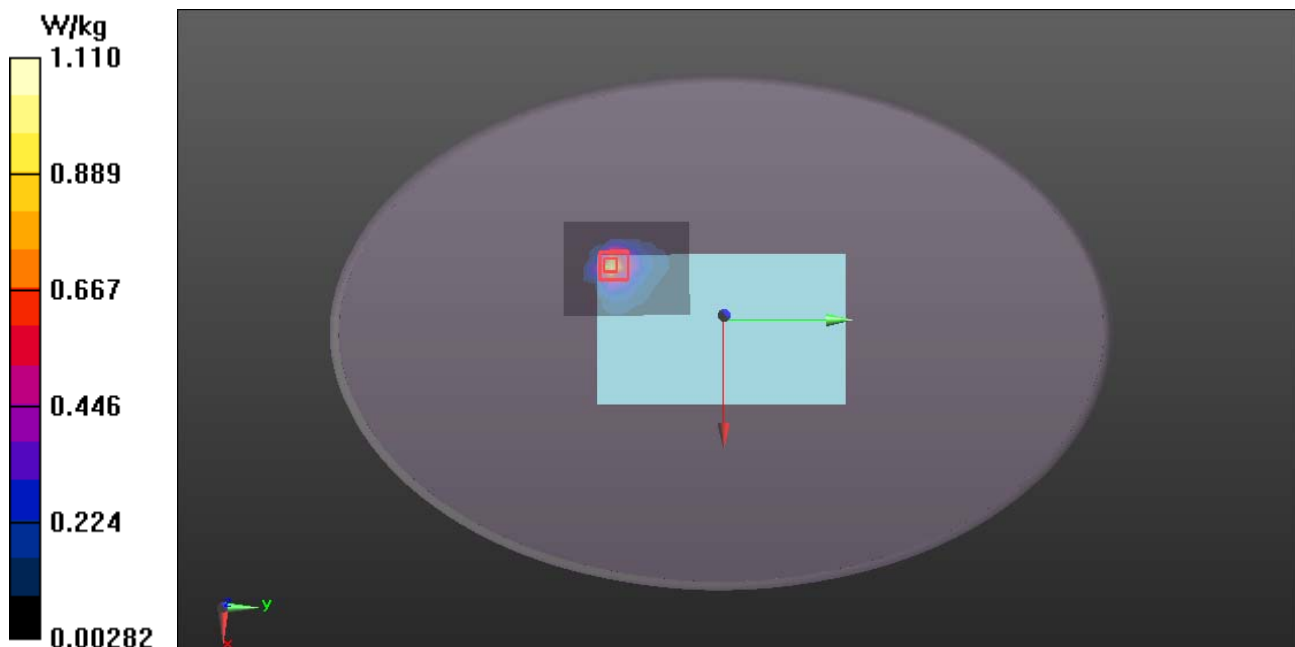
WIFI/IEEE802.11b Body Front Low CH1/Zoom Scan (7x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.060 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.712 W/kg; SAR(10 g) = 0.320 W/kg

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





Test Laboratory: Compliance Certification Services Inc.

Date: 4/12/2013

WIFI-Body-Front Middle CH6

DUT: Sapphire7; Type: Sapphire7; Serial: N/A

Communication System: IEEE 802.11b; Communication System Band: ISM 2.4GHz Band; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.979 \text{ S/m}$; $\epsilon_r = 53.283$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 24.0°C; Liquid Temperature: 22.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.92, 6.92, 6.92); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.4(1052);
- SEMCAD X Version 14.6.8 (7028)

WIFI/IEEE802.11b Body Front Middle CH6/Area Scan (9x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 1.25 W/kg

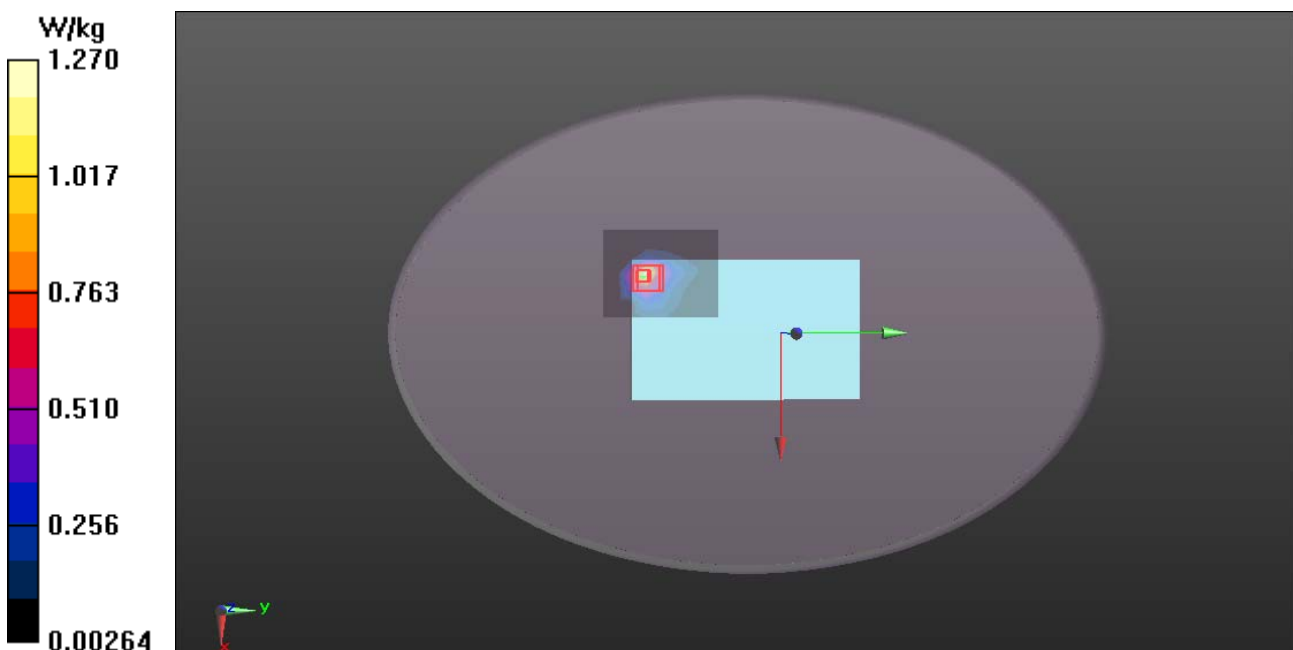
WIFI/IEEE802.11b Body Front Middle CH6/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.209 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.359 W/kg

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





Test Laboratory: Compliance Certification Services Inc.

Date: 4/12/2013

WIFI-Body-Front High CH11

DUT: Sapphire7; Type: Sapphire7; Serial: N/A

Communication System: IEEE 802.11b; Communication System Band: ISM 2.4GHz Band; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.005 \text{ S/m}$; $\epsilon_r = 53.175$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 24.0°C; Liquid Temperature: 22.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.92, 6.92, 6.92); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.4(1052);
- SEMCAD X Version 14.6.8 (7028)

WIFI/IEEE802.11b Body Front High CH11/Area Scan (9x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.01 W/kg

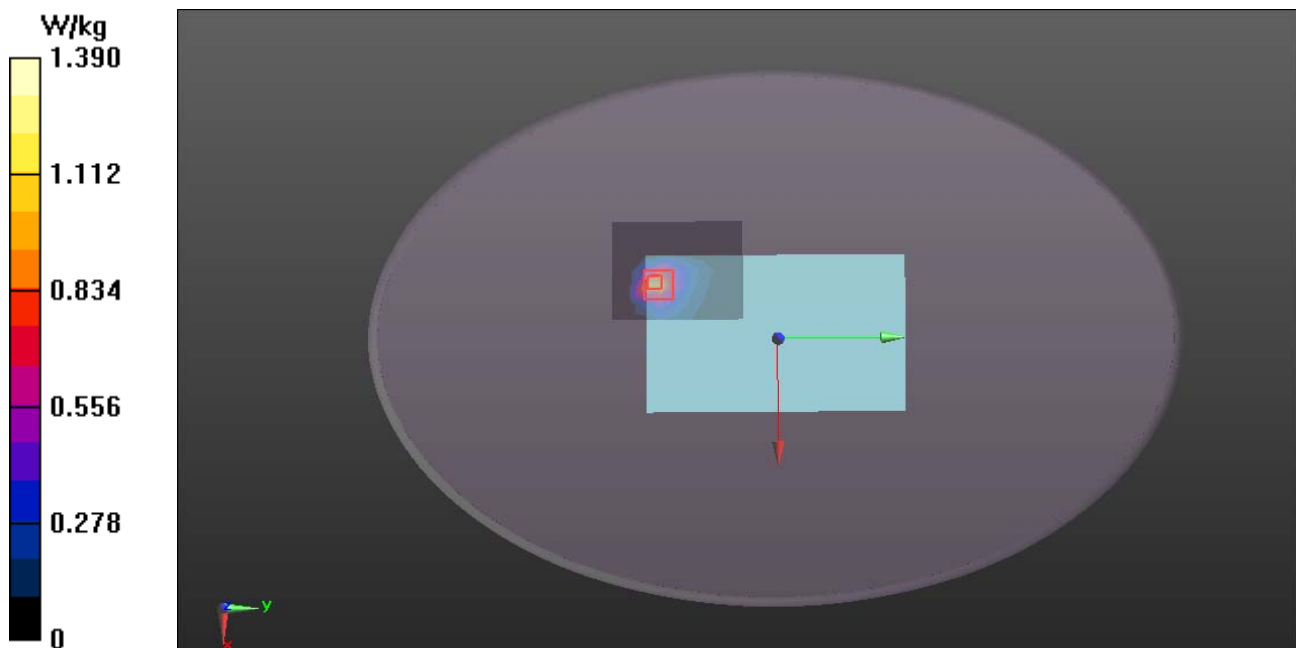
WIFI/IEEE802.11b Body Front High CH11/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

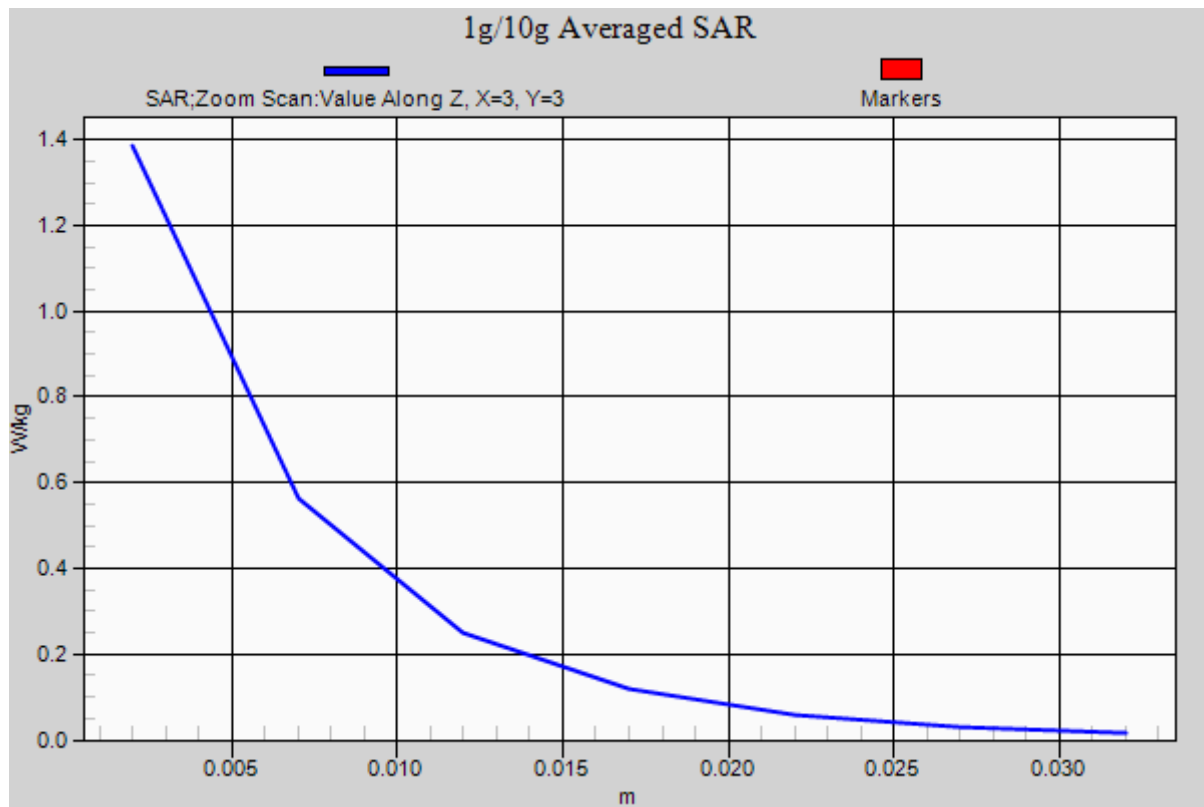
Reference Value = 1.402 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.380 W/kg

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







Test Laboratory: Compliance Certification Services Inc.

Date: 4/5/2013

WIFI-Body-Rear Low CH1

DUT: Sapphire7; Type: Sapphire7; Serial: N/A

Communication System: IEEE 802.11b; Communication System Band: ISM 2.4GHz Band; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.951 \text{ S/m}$; $\epsilon_r = 53.327$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 24.0°C; Liquid Temperature: 22.5°C

Phantom section: Flat Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.92, 6.92, 6.92); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.4(1052);

WIFI/IEEE802.11g Body Rear Low CH1/Area Scan (9x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.412 W/kg

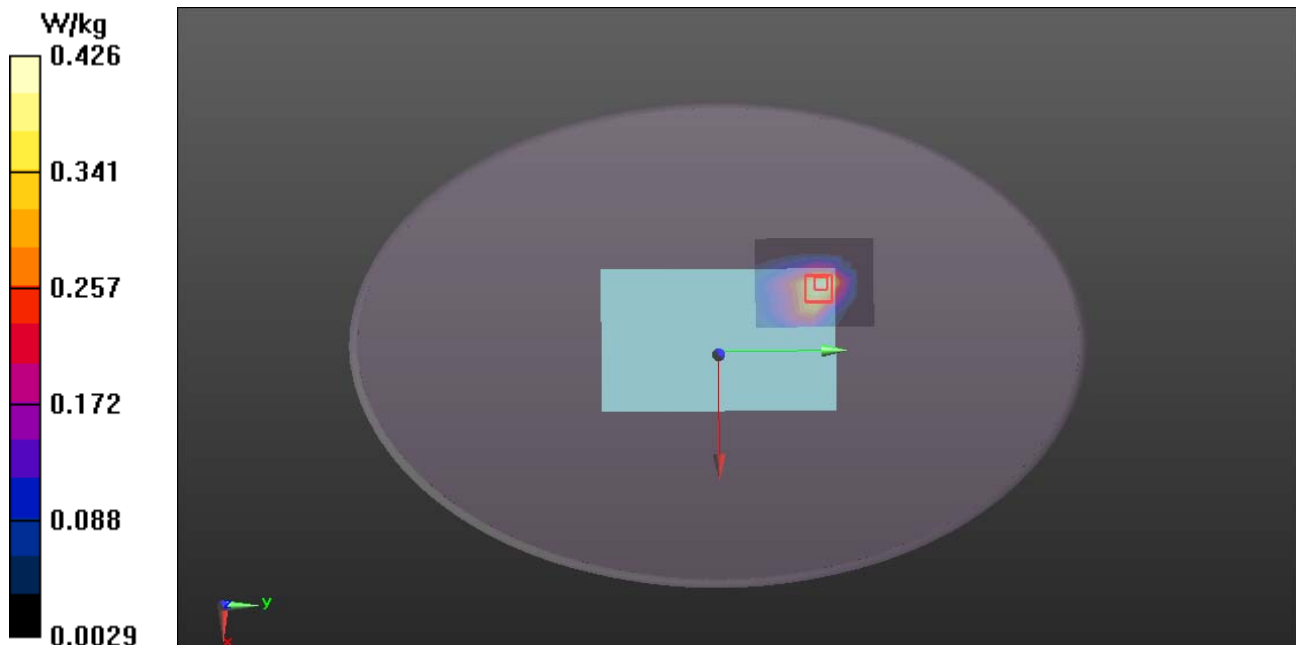
WIFI/IEEE802.11g Body Rear Low CH1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.126 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.600 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.426 W/kg





Test Laboratory: Compliance Certification Services Inc.

Date: 4/5/2013

WIFI-Body-Top Low CH1

DUT: Sapphire7; Type: Sapphire7; Serial: N/A

Communication System: IEEE 802.11b; Communication System Band: ISM 2.4GHz Band; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.951 \text{ S/m}$; $\epsilon_r = 53.327$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 24.0°C; Liquid Temperature: 22.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.92, 6.92, 6.92); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.4(1052);

WIFI/IEEE802.11b Body Top Low CH1/Area Scan (8x5x1): Measurement grid: dx=12mm, dy=12mm

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

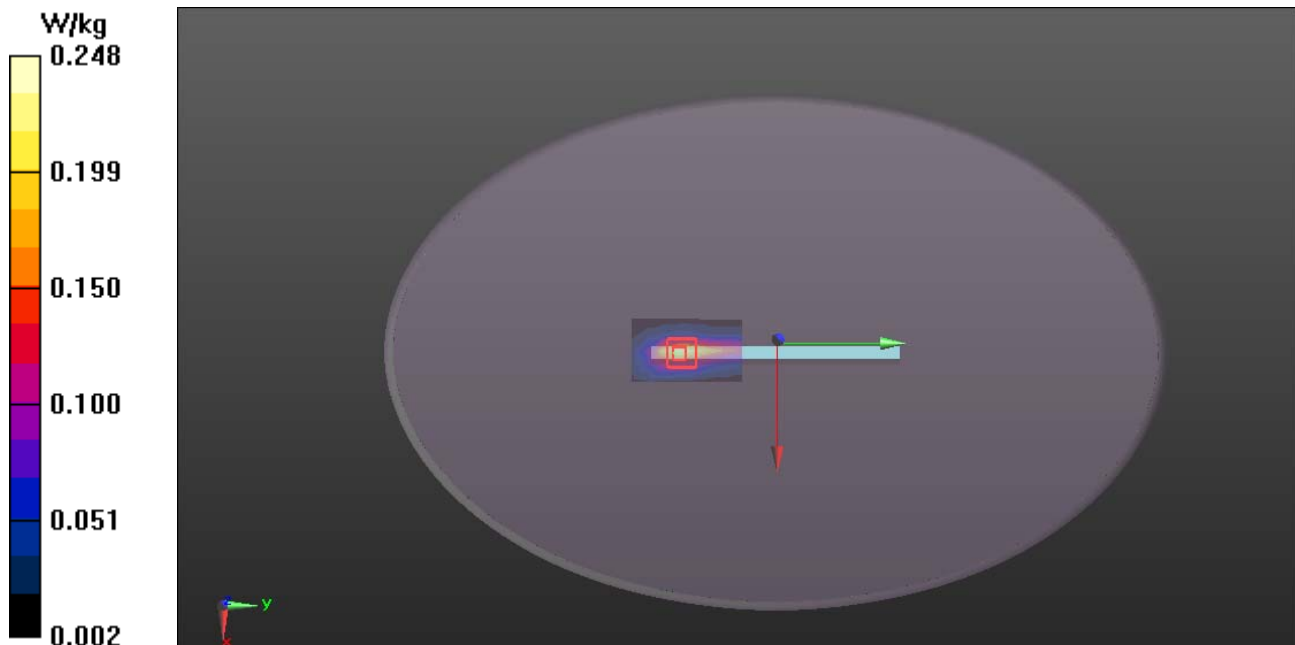
WIFI/IEEE802.11b Body Top Low CH1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.727 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.347 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.075 W/kg

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





Test Laboratory: Compliance Certification Services Inc.

Date: 4/5/2013

WIFI-Body-Left Low CH1

DUT: Sapphire7; Type: Sapphire7; Serial: N/A

Communication System: IEEE 802.11b; Communication System Band: ISM 2.4GHz Band; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.951 \text{ S/m}$; $\epsilon_r = 53.327$; $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 24.0°C; Liquid Temperature: 22.5°C

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.92, 6.92, 6.92); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.4(1052);

WIFI/IEEE802.11b Body Left Low CH1/Area Scan (7x5x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.665 W/kg

WIFI/IEEE802.11b Body Left Low CH1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.012 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.983 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.645 W/kg

