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Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

## WiFi 802.11b-Antenna A Body Up Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Up Low CH1/Area Scan (7x10x1):** Measurement grid: dx=12mm, dy=12mm

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

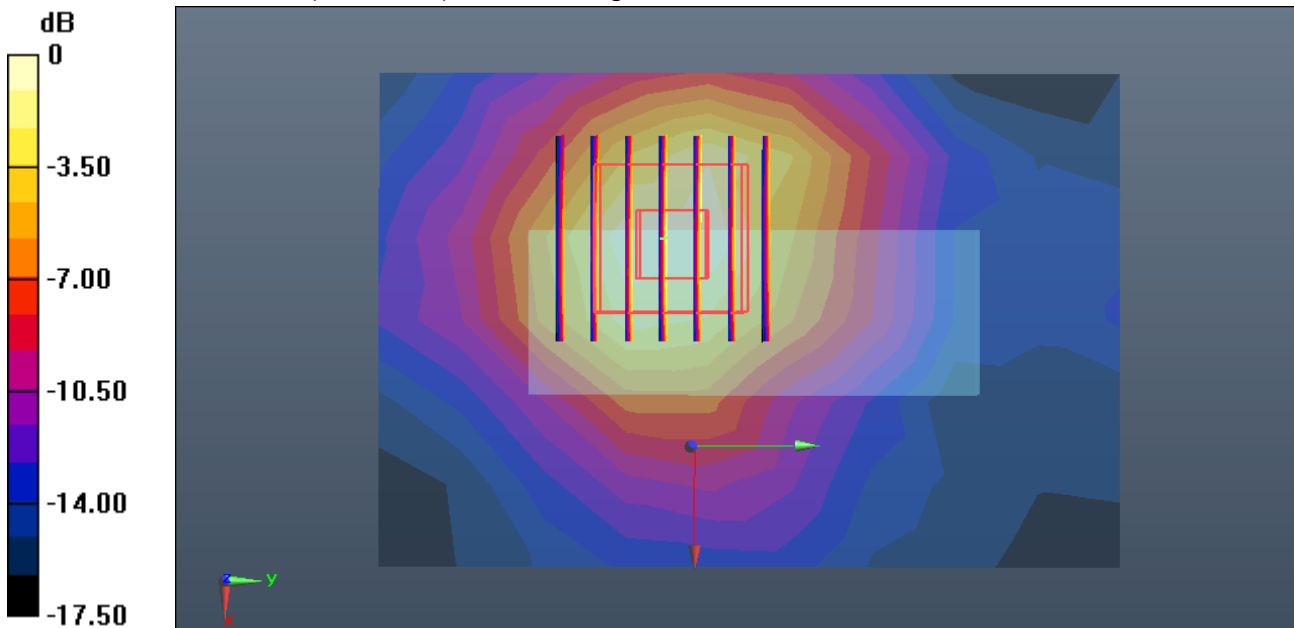
**WiFi/Body Up Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.579 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.363 W/kg

**SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.100 W/kg**

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



0 dB = 0.271 W/kg = -5.67 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

## WiFi 802.11b-Antenna A Body Down Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Down Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.640 W/kg

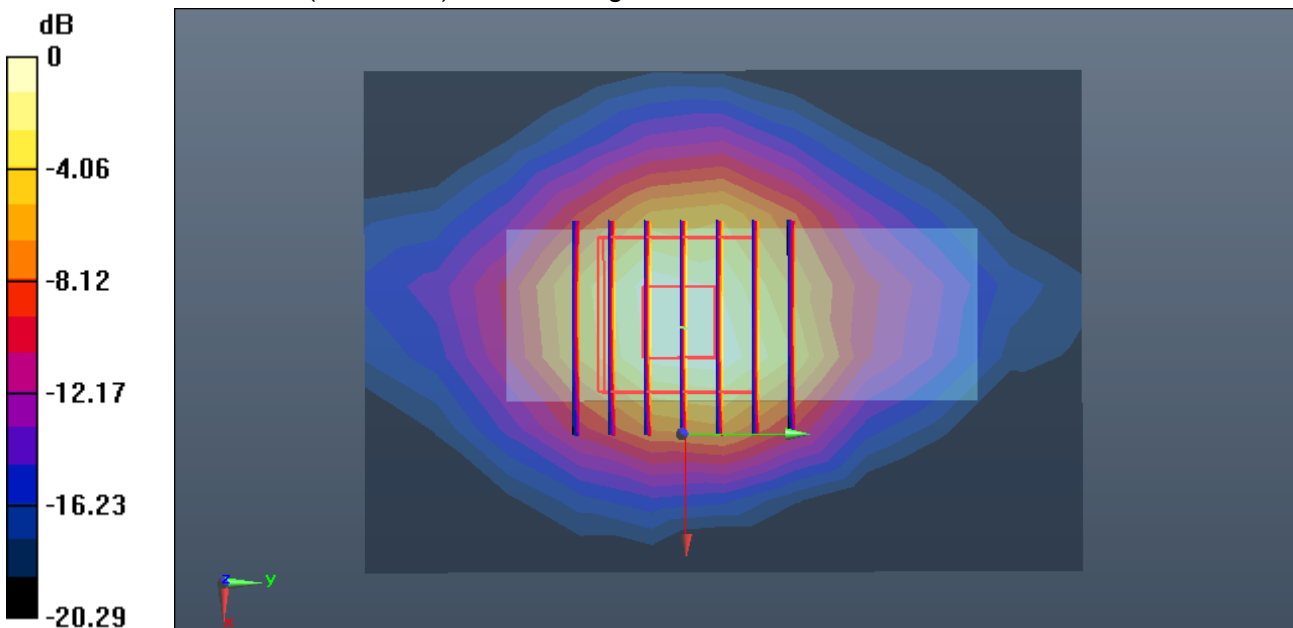
**WiFi/Body Down Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.83 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.947 W/kg

**SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.210 W/kg**

Maximum value of SAR (measured) = 0.692 W/kg



0 dB = 0.692 W/kg = -1.60 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

## WiFi 802.11b-Antenna A Body Front Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Front Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.122 W/kg

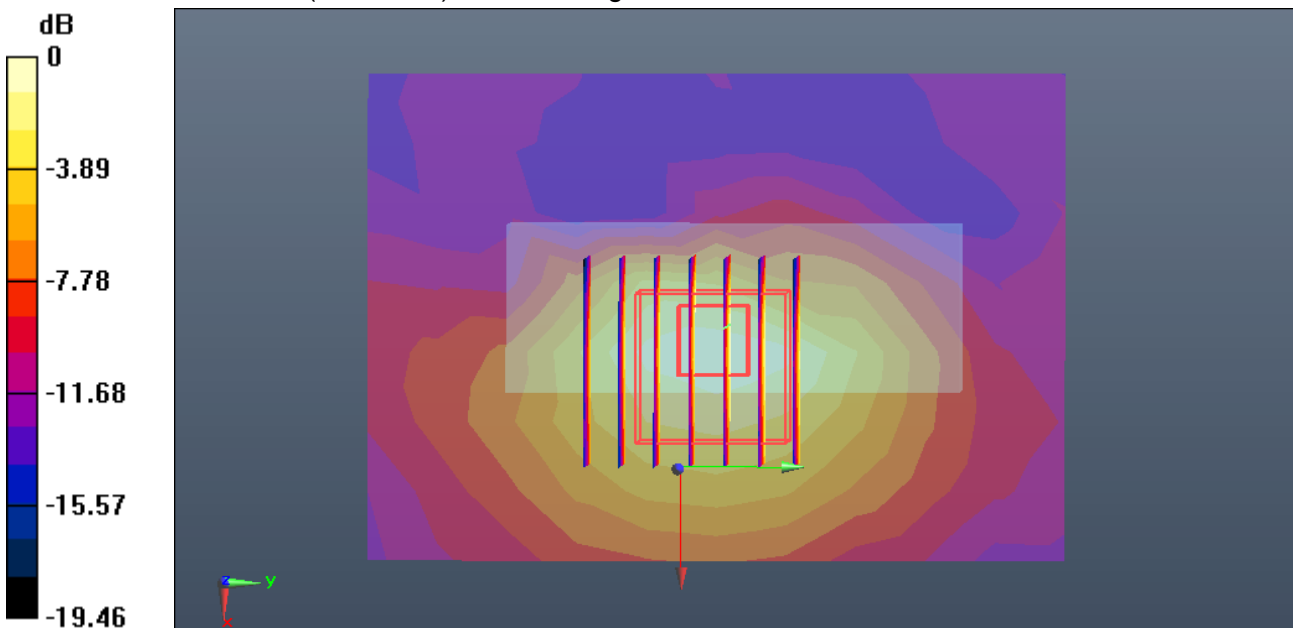
**WiFi/Body Front Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.576 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.165 W/kg

**SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.041 W/kg**

Maximum value of SAR (measured) = 0.121 W/kg



0 dB = 0.121 W/kg = -9.17 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

### WiFi 802.11b-Antenna A Body Back Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Back Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.688 W/kg

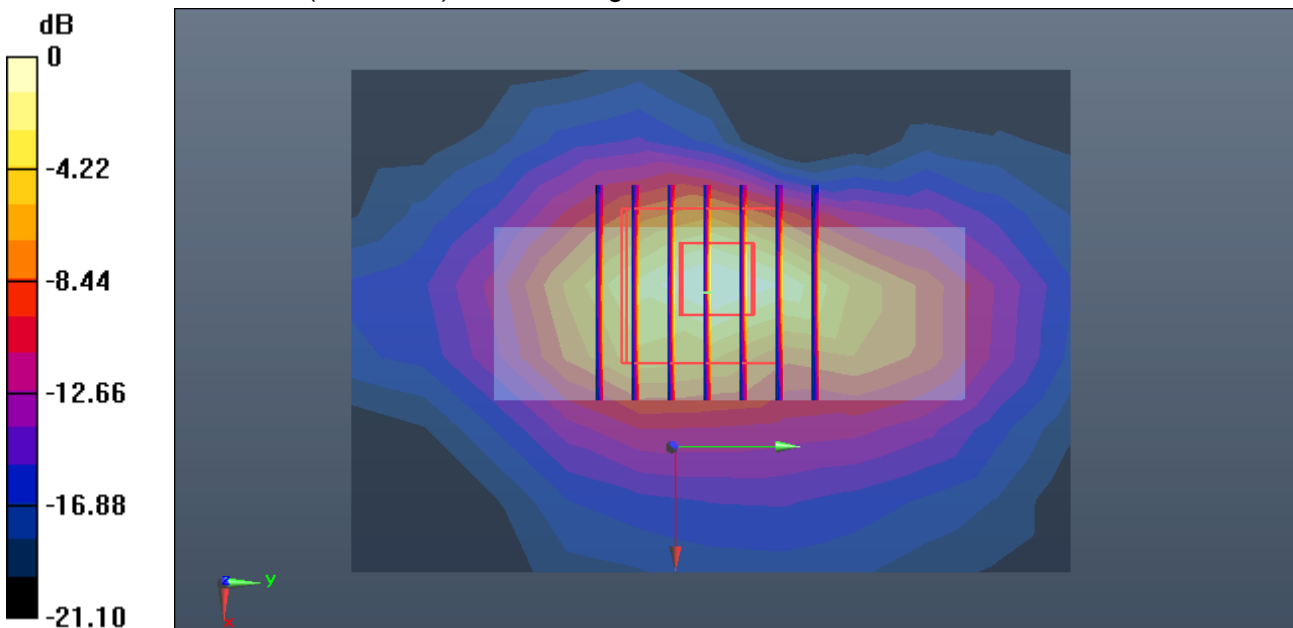
**WiFi/Body Back Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.99 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.867 W/kg

**SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.134 W/kg**

Maximum value of SAR (measured) = 0.571 W/kg



0 dB = 0.571 W/kg = -2.43 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

## WiFi 802.11b-Antenna B Body Up Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Up Low CH1/Area Scan (7x10x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.161 W/kg

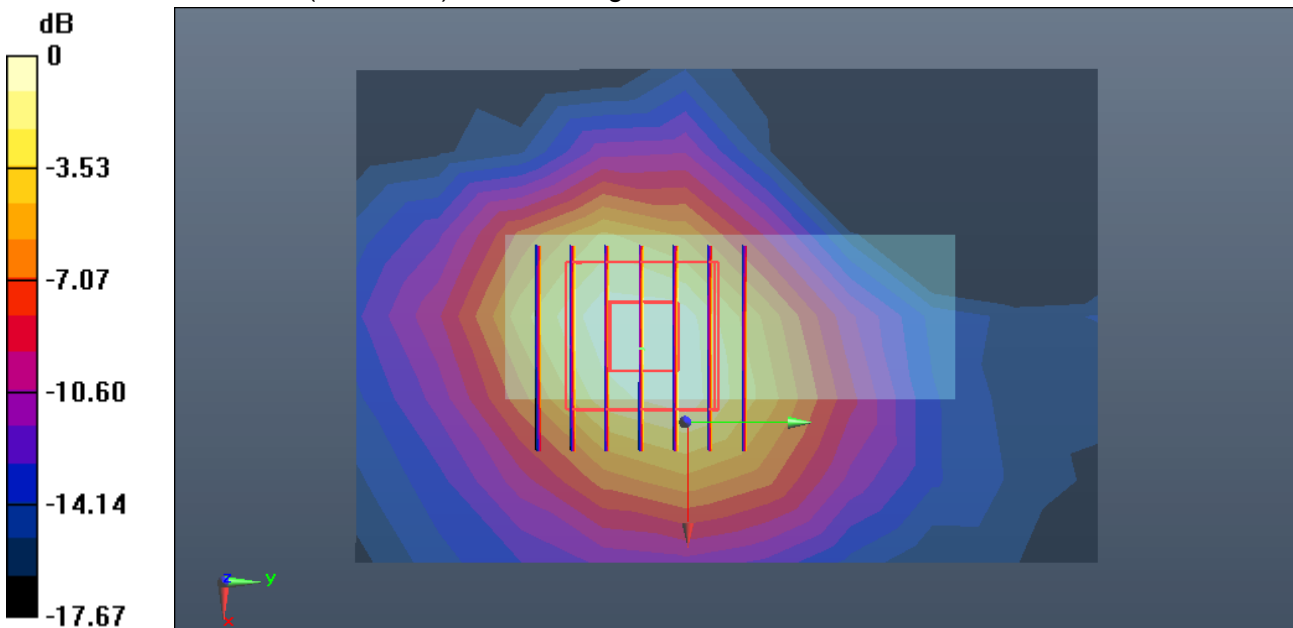
**WiFi/Body Up Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.819 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.231 W/kg

**SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.064 W/kg**

Maximum value of SAR (measured) = 0.170 W/kg



0 dB = 0.170 W/kg = -7.70 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

## WiFi 802.11b-Antenna B Body Down Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Down Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.392 W/kg

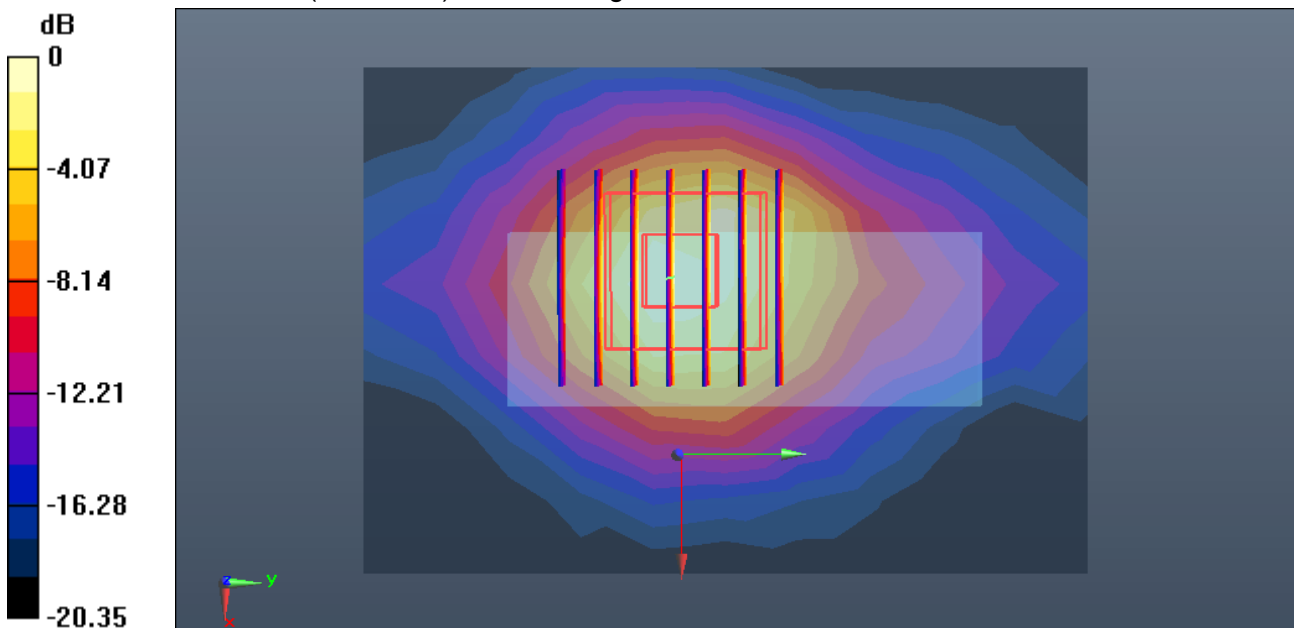
**WiFi/Body Down Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.38 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.513 W/kg

**SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.116 W/kg**

Maximum value of SAR (measured) = 0.378 W/kg



0 dB = 0.378 W/kg = -4.23 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

## WiFi 802.11b-Antenna B Body Front Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Front Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.211 W/kg

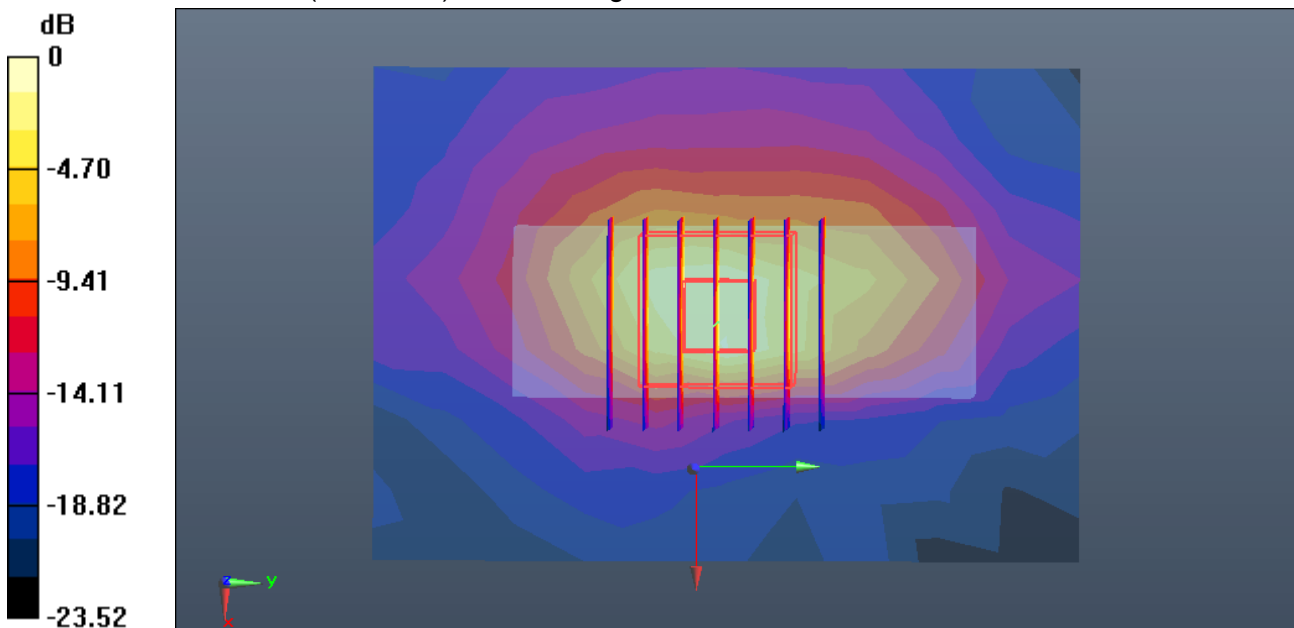
**WiFi/Body Front Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.44 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.423 W/kg

**SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.069 W/kg**

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg



Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

### WiFi 802.11b-Antenna B Body Back Low CH1

#### DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Back Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0666 W/kg

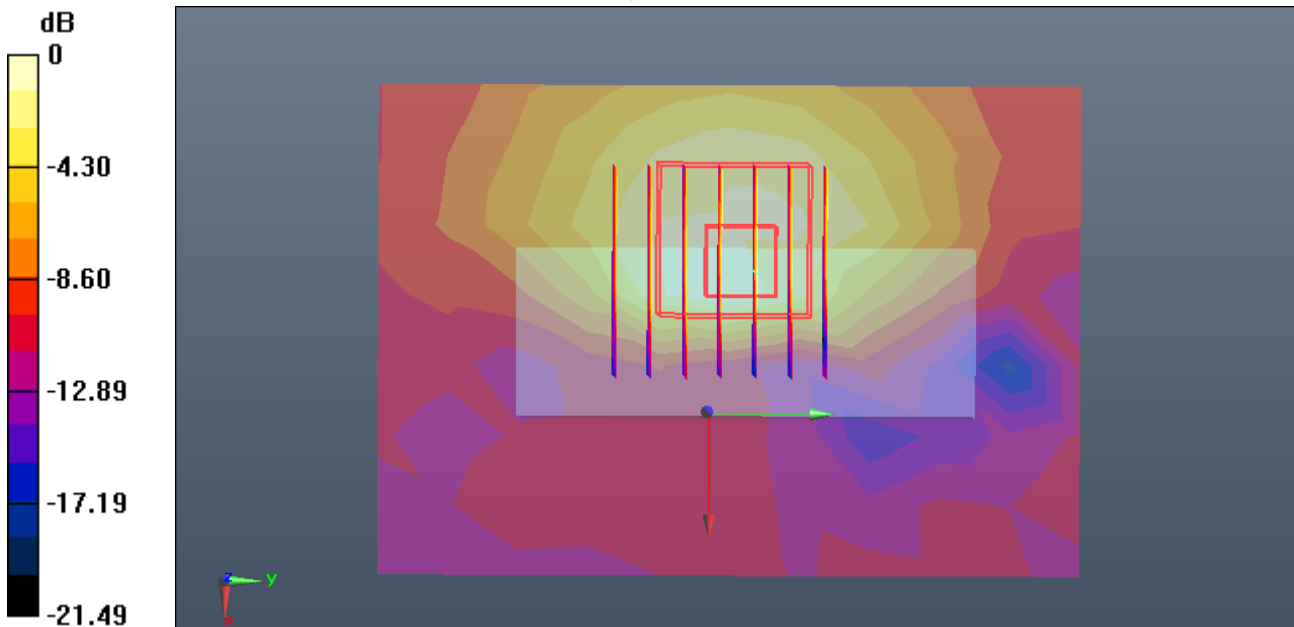
**WiFi/Body Back Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.624 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.0930 W/kg

**SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.024 W/kg**

Maximum value of SAR (measured) = 0.0678 W/kg



0 dB = 0.0678 W/kg = -11.69 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 5/14/2015

### WiFi 802.11b-Antenna A+B Body Down Low CH1

**DUT: Ethernet-2-WiFi Universal Wireless Adapter; Type: GWU637**

Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;  
Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 51.548$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(6.82, 6.82, 6.82); Calibrated: 7/28/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/22/2014
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Down Low CH1/Area Scan (8x11x1):** Measurement grid: dx=10mm, dy=10mm

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

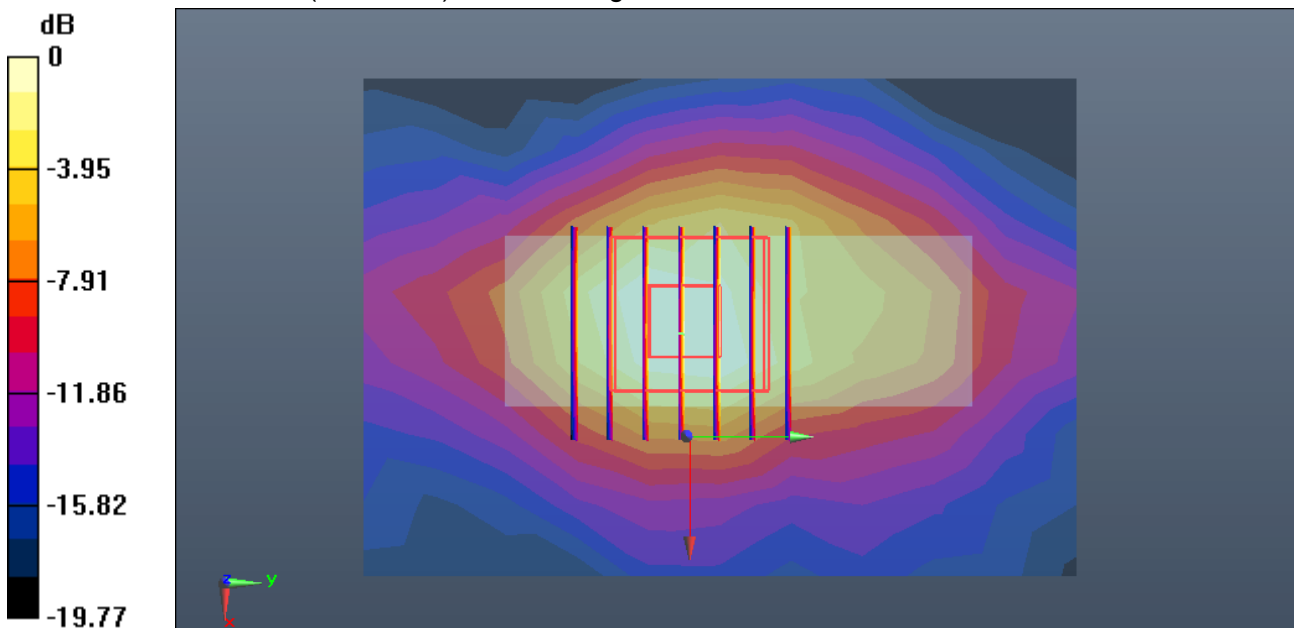
**WiFi/Body Down Low CH1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.33 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.297 W/kg

**SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.071 W/kg**

Maximum value of SAR (measured) = 0.219 W/kg



0 dB = 0.219 W/kg = -6.60 dBW/kg