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Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WiFi 802.11 b-Body TB Rear Middle CH6 Main AntennaCommunication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1Medium parameters used: $f = 2437$ MHz; $\sigma = 1.949$ S/m; $\epsilon_r = 51.14$; $\rho = 1000$ kg/m³

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 - SN3753; ConvF(7.28, 7.28, 7.28); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi 2.4GHz/IEEE802.11b Body Rear Middle CH6 Main Antenna /Area Scan (10x13x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0780 W/kg

WiFi 2.4GHz/IEEE802.11b Body Rear Middle CH6 Middle Main Antenna /Zoom Scan (7x7x5)/Cube

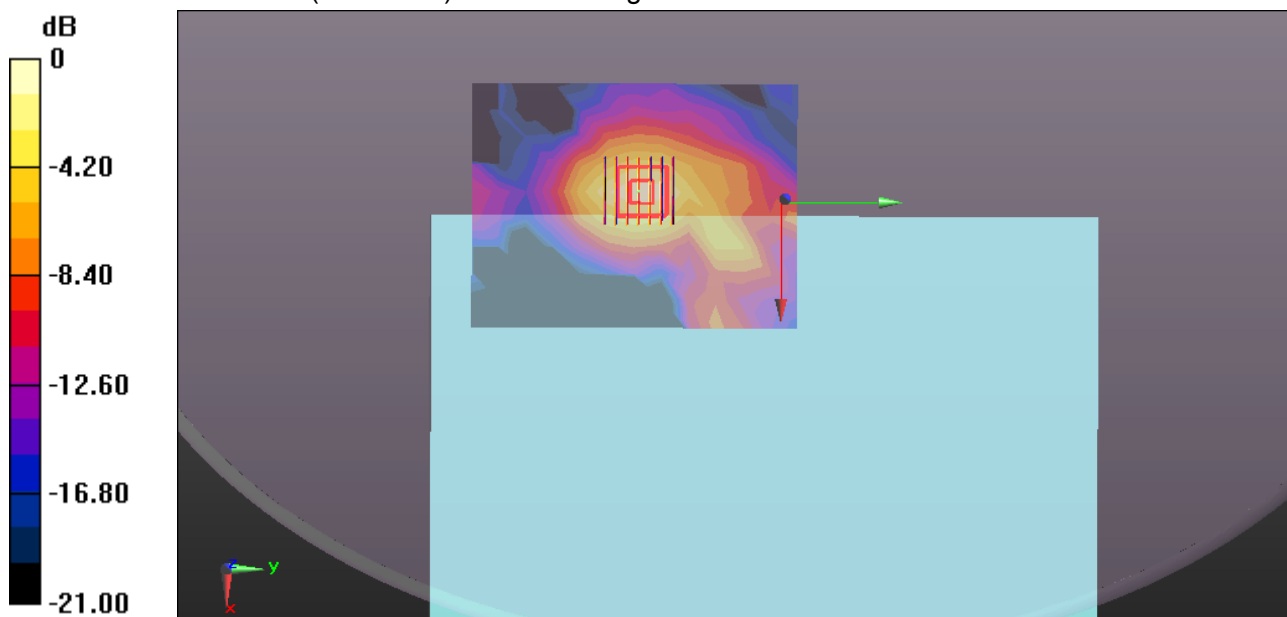
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.824 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.102 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.0773 W/kg



0 dB = 0.0773 W/kg = -11.12 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WiFi 802.11 b-Body TB Edge 1 Middle CH6 Main AntennaCommunication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1Medium parameters used: $f = 2437$ MHz; $\sigma = 1.949$ S/m; $\epsilon_r = 51.14$; $\rho = 1000$ kg/m³

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 - SN3753; ConvF(7.28, 7.28, 7.28); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi 2.4GHz/IEEE802.11b Body Edge 1 Middle CH6 Main Antenna/Area Scan (10x13x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.205 W/kg

WiFi 2.4GHz/IEEE802.11b Body Edge 1 Middle CH6 Main Antenna/Zoom Scan (7x7x5)/Cube 0:

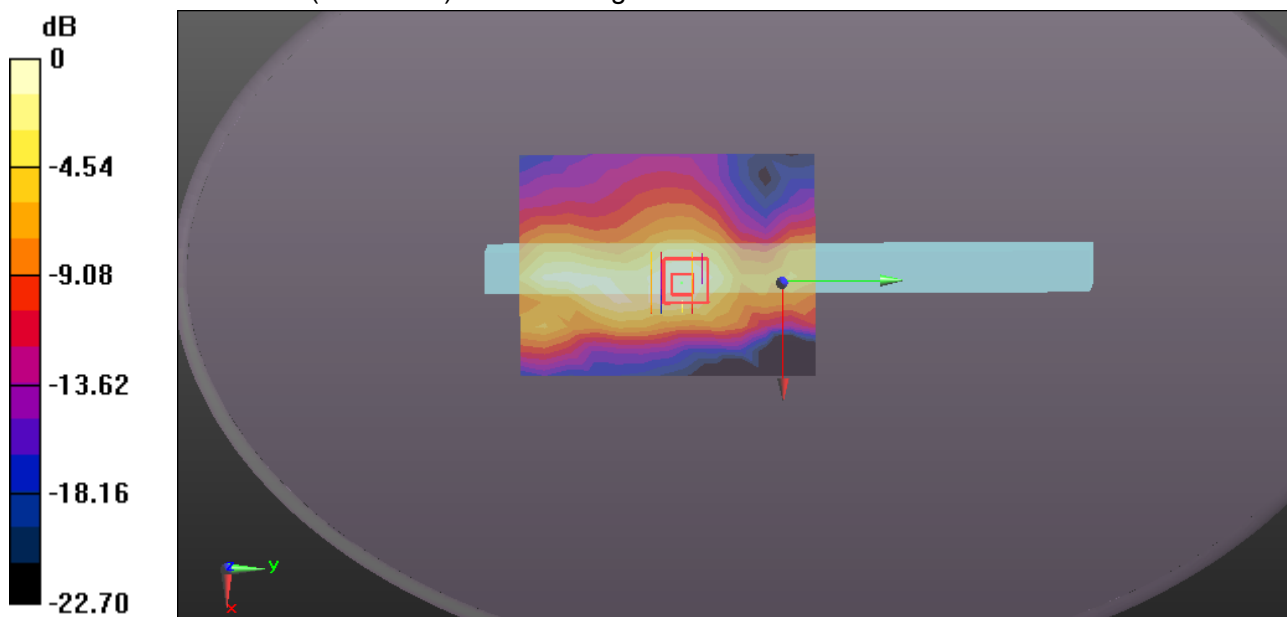
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.669 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.194 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

2.4GHz-Body TB Rear High CH78 Main AntennaCommunication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1Medium parameters used (extrapolated): $f = 2480$ MHz; $\sigma = 2.003$ S/m; $\epsilon_r = 50.926$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3753; ConvF(7.28, 7.28, 7.28); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi 2.4GHz/IEEE802.11b Body Rear High CH78 Main Antenna /Area Scan (10x13x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0080 W/kg

WiFi 2.4GHz/IEEE802.11b Body Rear High CH78 Middle Main Antenna /Zoom Scan (7x7x5)/Cube 0:

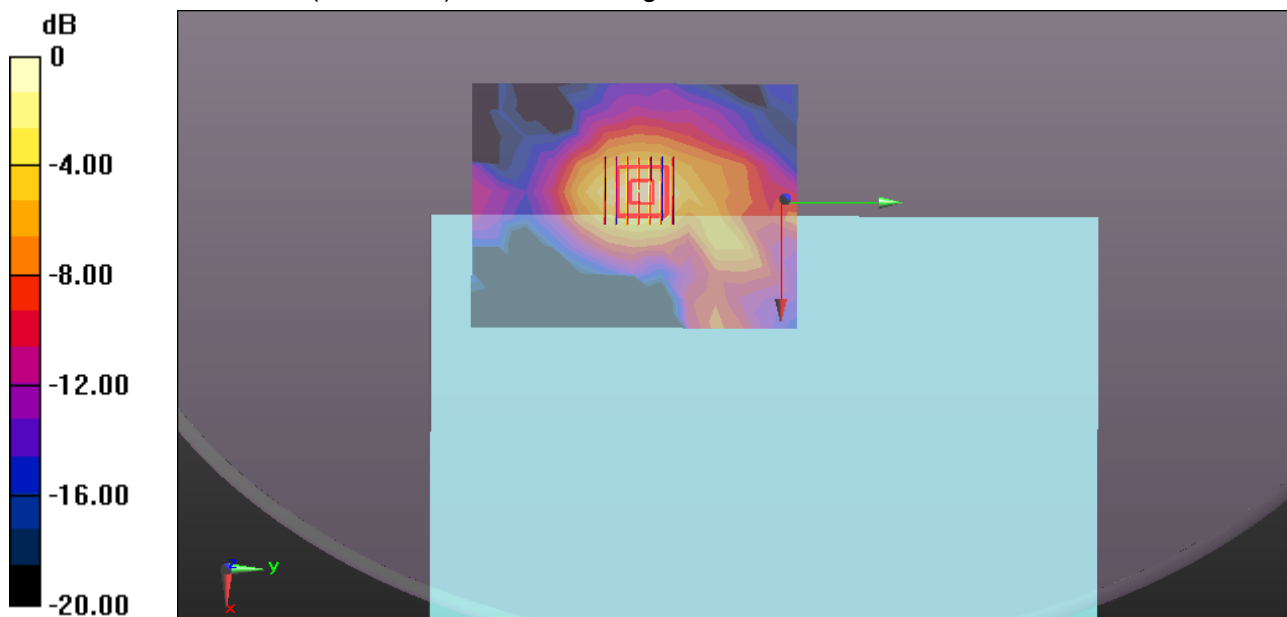
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0152 W/kg

SAR(1 g) = 0.0042 W/kg; SAR(10 g) = 0.0013 W/kg

Maximum value of SAR (measured) = 0.00745 W/kg



0 dB = 0.00745 W/kg = -21.28 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

2.4GHz-Body TB Edge 1 High CH78 Main Antenna

Communication System: UID 0, Bluetooth (0); Communication System Band: ISM 2.4Ghz Band;

Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated): $f = 2480$ MHz; $\sigma = 2.003$ S/m; $\epsilon_r = 50.926$; $\rho = 1000$ kg/m³

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 - SN3753; ConvF(7.28, 7.28, 7.28); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi 2.4GHz/IEEE802.11b Body Edge 1 High CH78 Main Antenna/Area Scan (10x13x1):

Measurement grid: dx=12mm, dy=12mm

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0342 W/kg

WiFi 2.4GHz/IEEE802.11b Body Edge 1 High CH78 Chian0/Zoom Scan (7x7x5)/Cube 0:

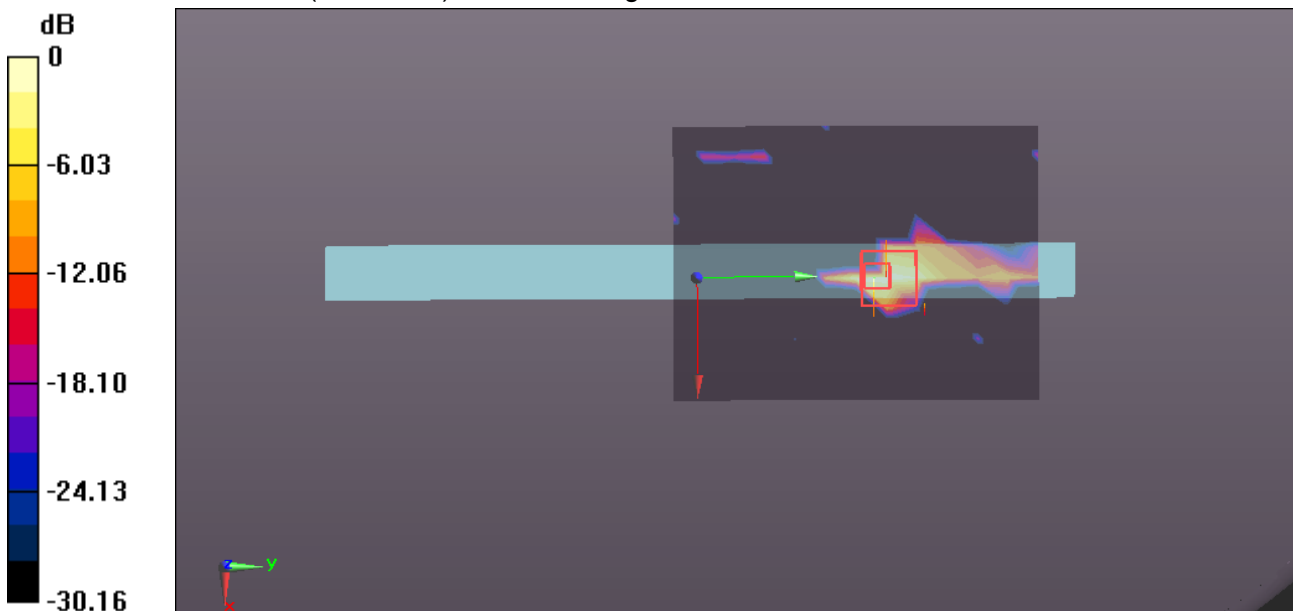
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0560 W/kg

SAR(1 g) = 0.0157 W/kg; SAR(10 g) = 0.00967 W/kg[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0384 W/kg



Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WIFI 802.11 a-Body TB Rear CH60 Main Antenna

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band II;

Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5300$ MHz; $\sigma = 5.325$ S/m; $\epsilon_r = 47.541$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3753; ConvF(4.69, 4.69, 4.69); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Rear CH60 Main Antenna/Area Scan (11x15x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0606 W/kg

WIFI/IEEE802.11a Body Rear CH60 Main Antenna/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

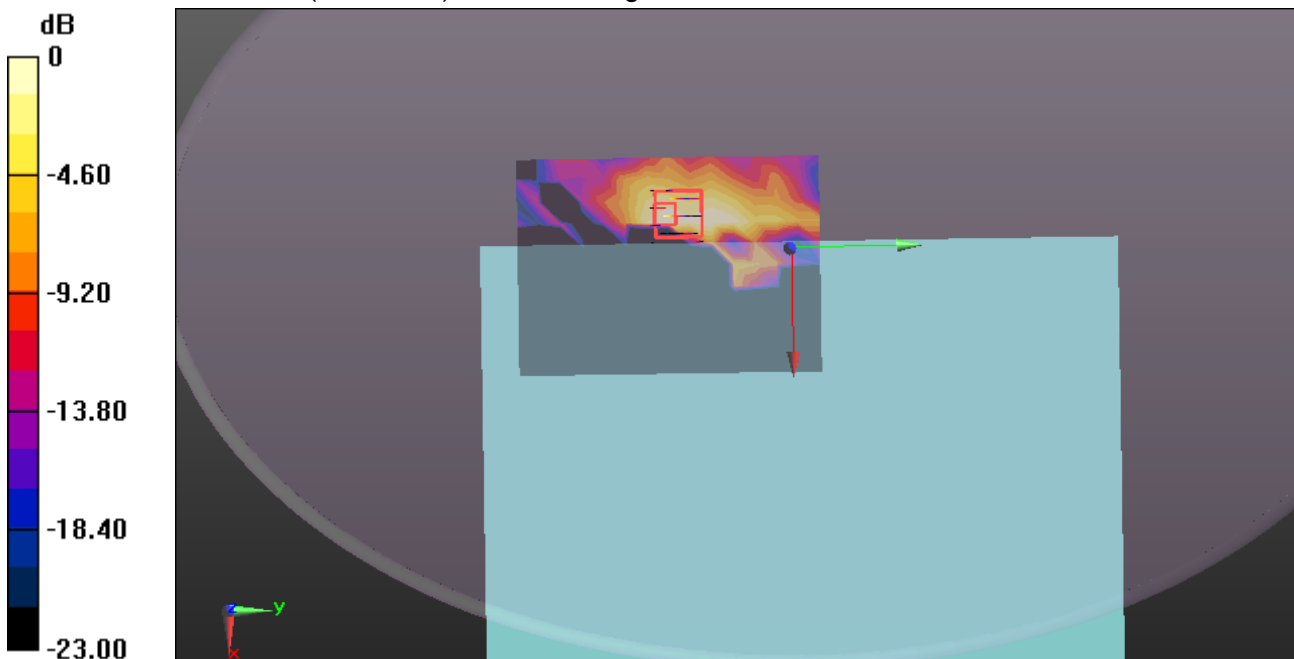
dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0980 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00567 W/kg

Maximum value of SAR (measured) = 0.0547 W/kg



0 dB = 0.0547 W/kg = -12.62 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WIFI 802.11 a-Body TB Rear CH128 Main Antenna

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band III;

Frequency: 5640 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5640$ MHz; $\sigma = 5.799$ S/m; $\epsilon_r = 46.847$; $\rho = 1000$ kg/m³

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 - SN3753; ConvF(4.26, 4.26, 4.26); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Rear CH128 Main Antenna/Area Scan (11x31x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0741 W/kg

WIFI/IEEE802.11a Body Rear CH128 Main Antenna/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

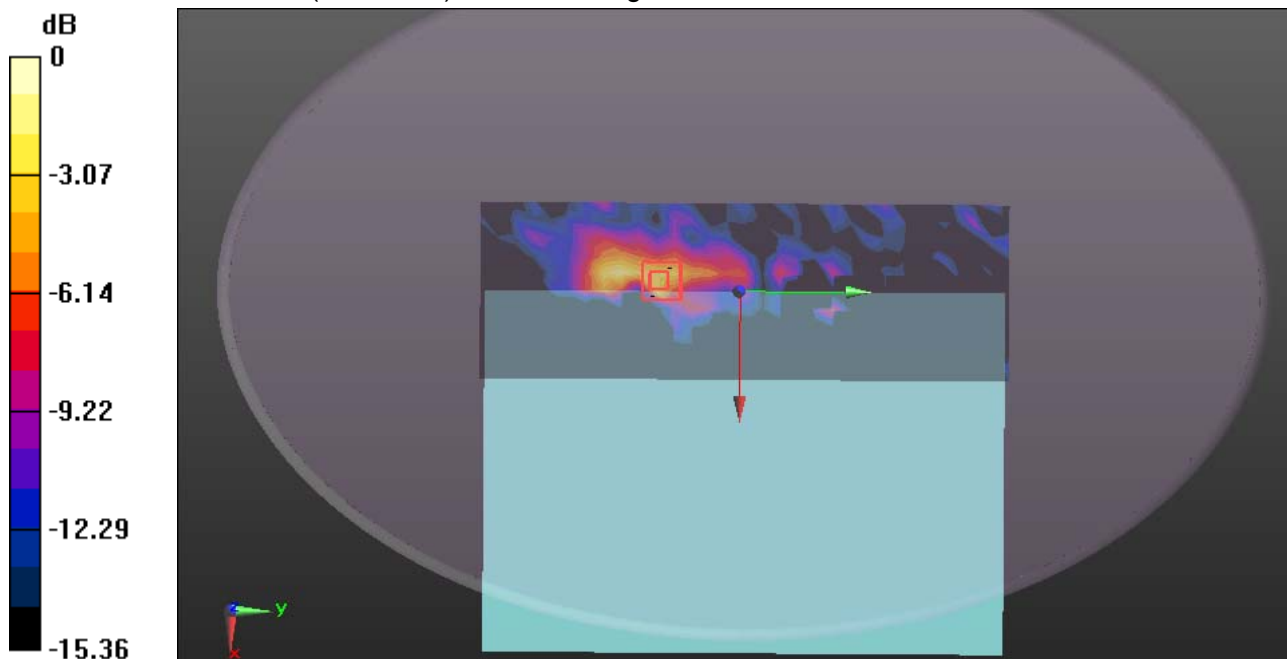
dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.8590 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.00947 W/kg

Maximum value of SAR (measured) = 0.0961 W/kg



Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WIFI 802.11 a-Body TB Rear CH157 Main Antenna

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV;

Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.996$ S/m; $\epsilon_r = 46.551$; $\rho = 1000$ kg/m³

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 - SN3753; ConvF(4.36, 4.36, 4.36); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Rear CH157 Main Antenna/Area Scan (11x15x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0780 W/kg

WIFI/IEEE802.11a Body Rear CH157 Main Antenna/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

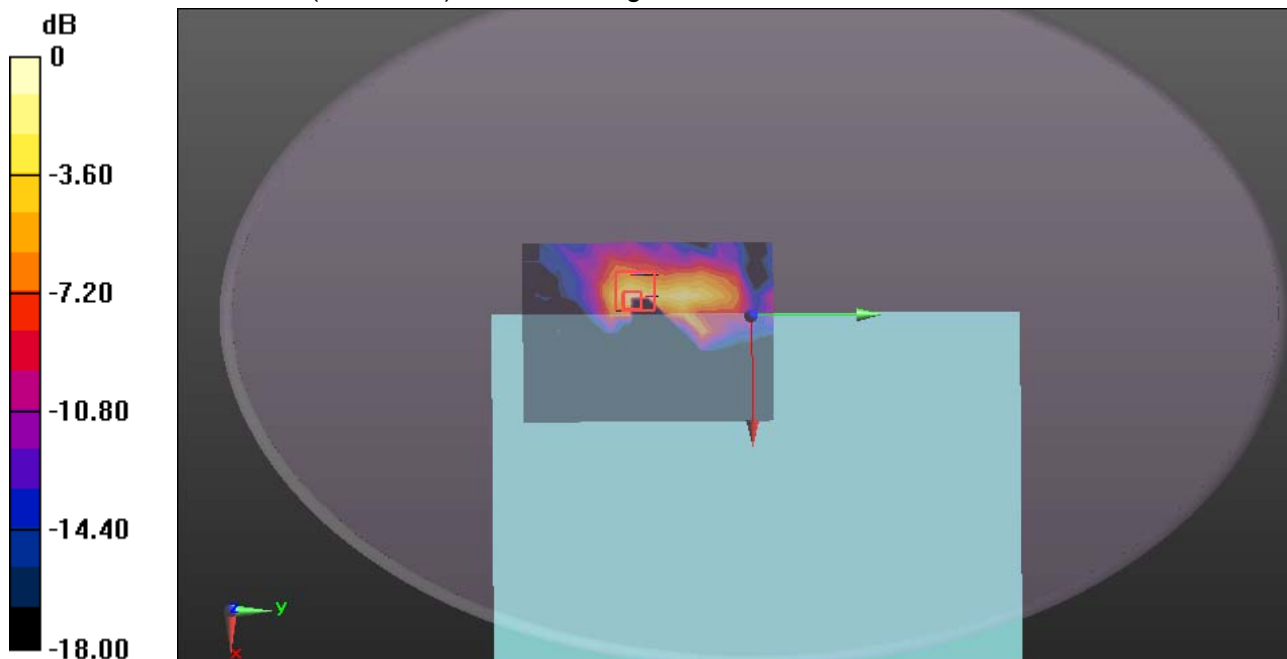
dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.00988 W/kg

Maximum value of SAR (measured) = 0.0928 W/kg



0 dB = 0.0928 W/kg = -10.32 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WIFI 802.11 a-Body TB Edge 1 CH60 Main Antenna

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band II;

Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5300$ MHz; $\sigma = 5.325$ S/m; $\epsilon_r = 47.541$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3753; ConvF(4.69, 4.69, 4.69); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Edge 1 CH60 Main Antenna/Area Scan (11x15x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.907 W/kg

WIFI/IEEE802.11a Body Edge 1 CH60 Main Antenna/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

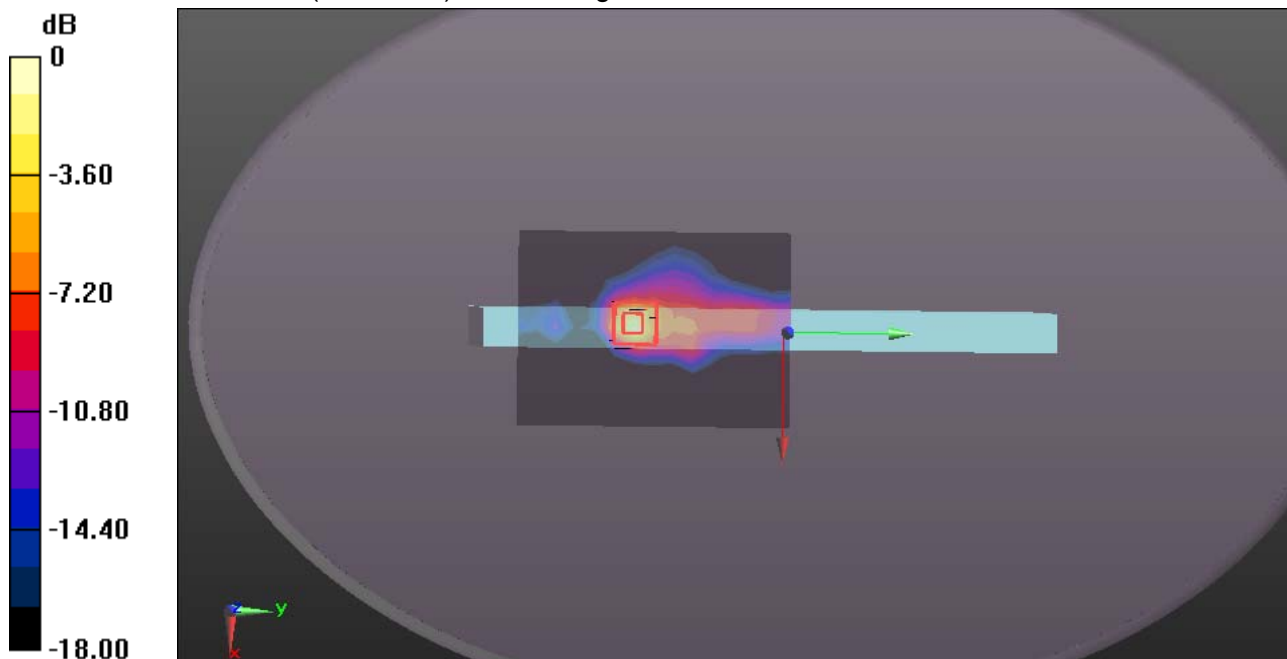
dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.069 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WIFI 802.11 a-Body TB Edge 1 CH128 Main Antenna

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band III;

Frequency: 5640 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5640$ MHz; $\sigma = 5.799$ S/m; $\epsilon_r = 46.847$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3753; ConvF(4.26, 4.26, 4.26); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Edge 1 CH128 Main Antenna/Area Scan (11x15x1): Measurement grid:

dx=10mm, dy=10mm

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

WIFI/IEEE802.11a Body Edge 1 CH128 Main Antenna/Zoom Scan (7x7x7)/Cube 0: Measurement

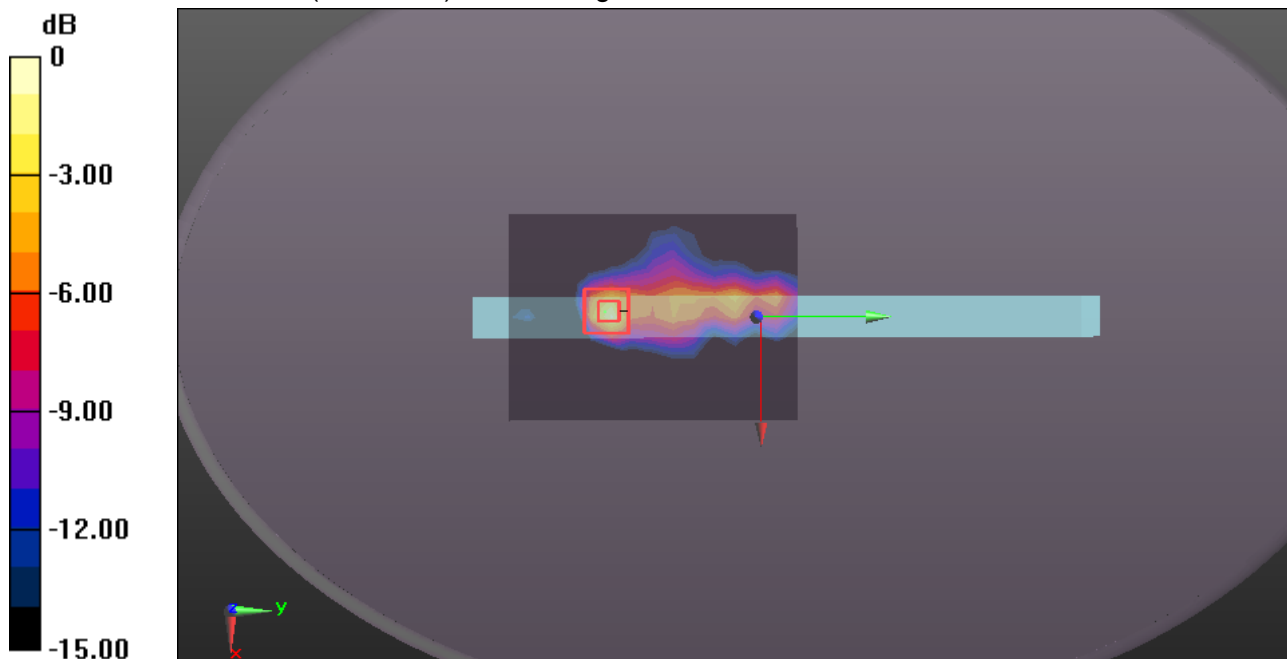
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.716 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



Test Laboratory: Compliance Certification Services Inc.

Date: 7/31/2016

WIFI 802.11 a-Body TB Edge 1 CH157 Main Antenna

Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV;

Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.996$ S/m; $\epsilon_r = 46.551$; $\rho = 1000$ kg/m³

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 - SN3753; ConvF(4.36, 4.36, 4.36); Calibrated: 5/11/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 12/16/2015
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Edge 1 CH157 Main Antenna/Area Scan (11x15x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.602 W/kg

WIFI/IEEE802.11a Body Edge 1 CH157 Main Antenna/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.701 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.788 W/kg

