Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/12/20

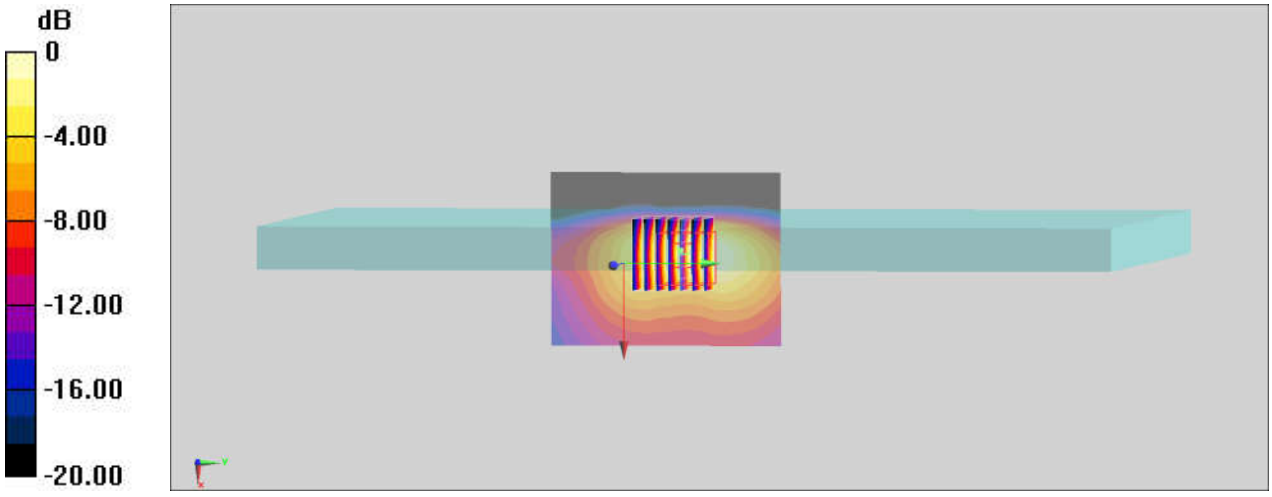
#01_WLAN2.4GHz_802.11b 1Mbps_Edge 3_0mm_Ch11;Ant 1

Communication System: 802.11b; Frequency: 2462 MHz;Duty Cycle: 1:1.014
Medium: MSL_2450_181220 Medium parameters used: f = 2462 MHz; σ = 2.013 S/m; ε_r = 53.119; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3976; ConvF(7.8, 7.8, 7.8) ; Calibrated: 2018/1/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1041
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.865 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.52 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.991 W/kg
SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.240 W/kg
Maximum value of SAR (measured) = 0.760 W/kg



0 dB = 0.760 W/kg = -1.19 dBW/kg

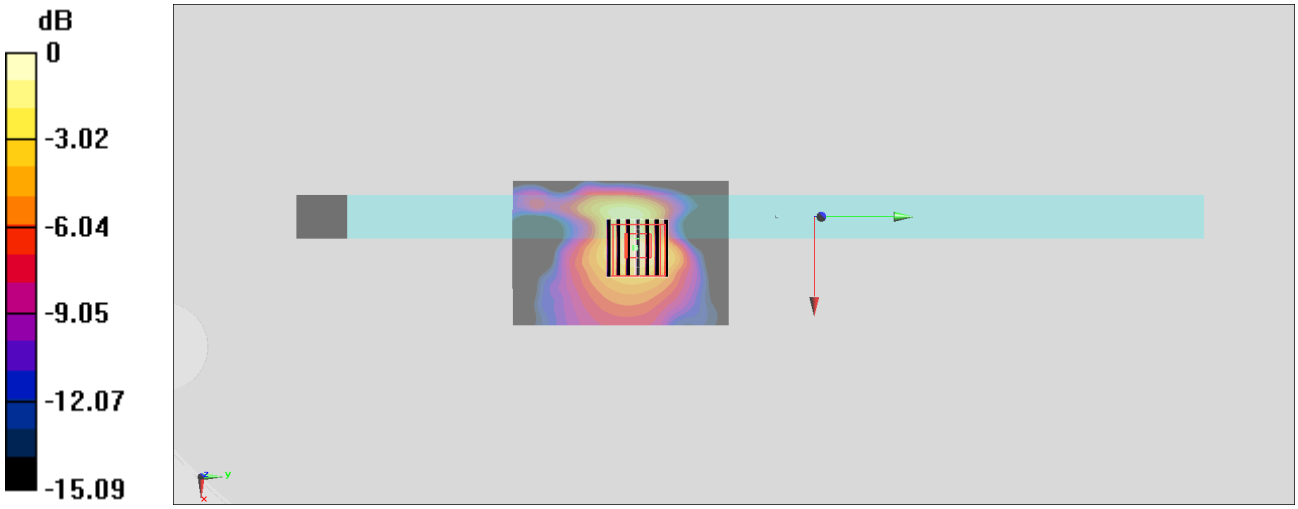
#02_WLAN5GHz_802.11a 6Mbps_Edge 3_0mm_Ch56;Ant 2

Communication System: 802.11a; Frequency: 5280 MHz;Duty Cycle: 1:1.019
Medium: MSL_5G_181216 Medium parameters used: f = 5280 MHz; σ = 5.399 S/m; ε_r = 47.494; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3925; ConvF(4.44, 4.44, 4.44) ; Calibrated: 2018/5/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1326; Calibrated: 2018/9/18
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1131
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Area Scan (61x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.10 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 22.58 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.93 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.383 W/kg
Maximum value of SAR (measured) = 2.41 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

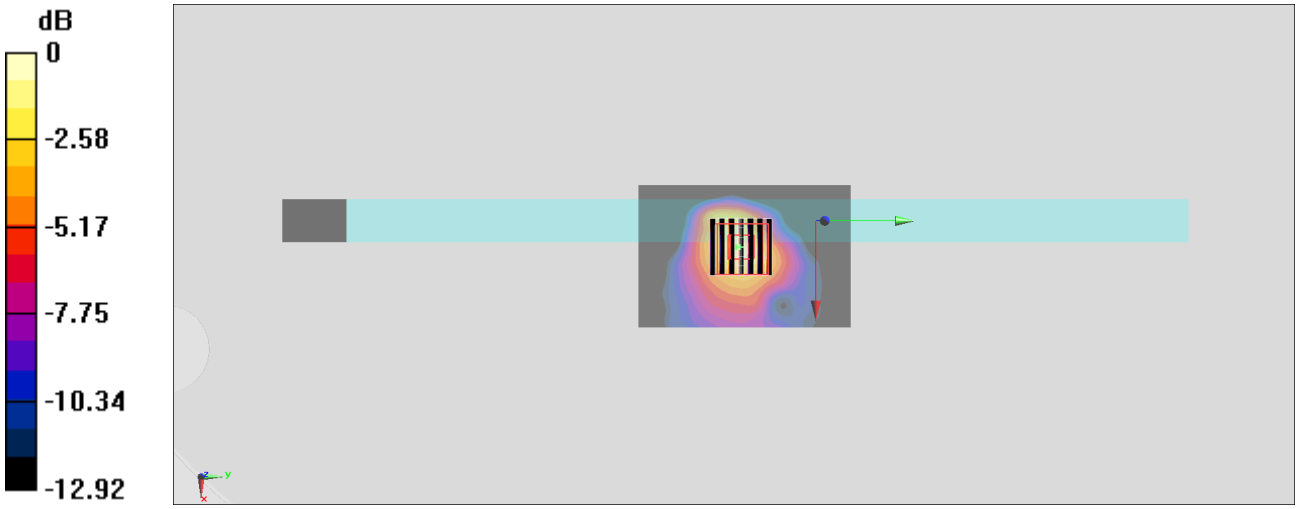
#03_WLAN5GHz_802.11n-HT40 MCS0_Edge 3_0mm_Ch134;Ant 1

Communication System: 802.11n; Frequency: 5670 MHz;Duty Cycle: 1:1.053
Medium: MSL_5G_181216 Medium parameters used: f = 5670 MHz; σ = 5.934 S/m; ε_r = 47.142; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3925; ConvF(4.08, 4.08, 4.08) ; Calibrated: 2018/5/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1326; Calibrated: 2018/9/18
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1131
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Area Scan (61x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.26 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 21.95 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 4.30 W/kg
SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.367 W/kg
Maximum value of SAR (measured) = 2.56 W/kg



0 dB = 2.56 W/kg = 4.08 dBW/kg

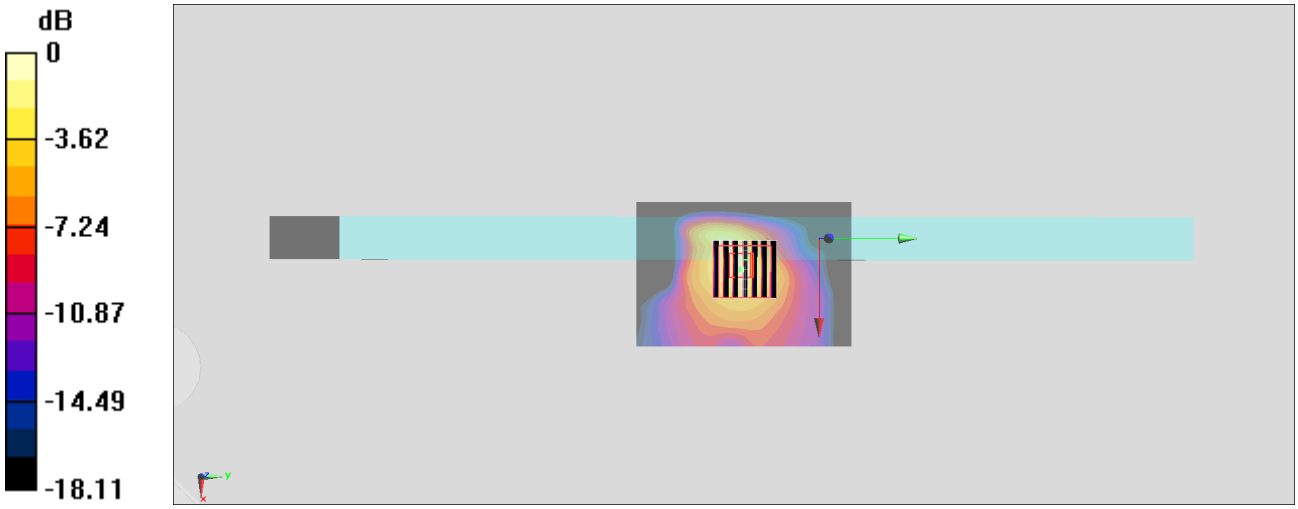
#04_WLAN5GHz_802.11ac-VHT80 MCS0_Edge 3_0mm_Ch155;Ant 1

Communication System: 802.11ac; Frequency: 5775 MHz;Duty Cycle: 1:1.079
Medium: MSL_5G_181216 Medium parameters used: f = 5775 MHz; σ = 6.084 S/m; ε_r = 47.072; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3925; ConvF(4.17, 4.17, 4.17) ; Calibrated: 2018/5/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1326; Calibrated: 2018/9/18
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1131
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Area Scan (61x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.32 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 20.33 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 4.74 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.380 W/kg
Maximum value of SAR (measured) = 2.68 W/kg



0 dB = 2.68 W/kg = 4.28 dBW/kg

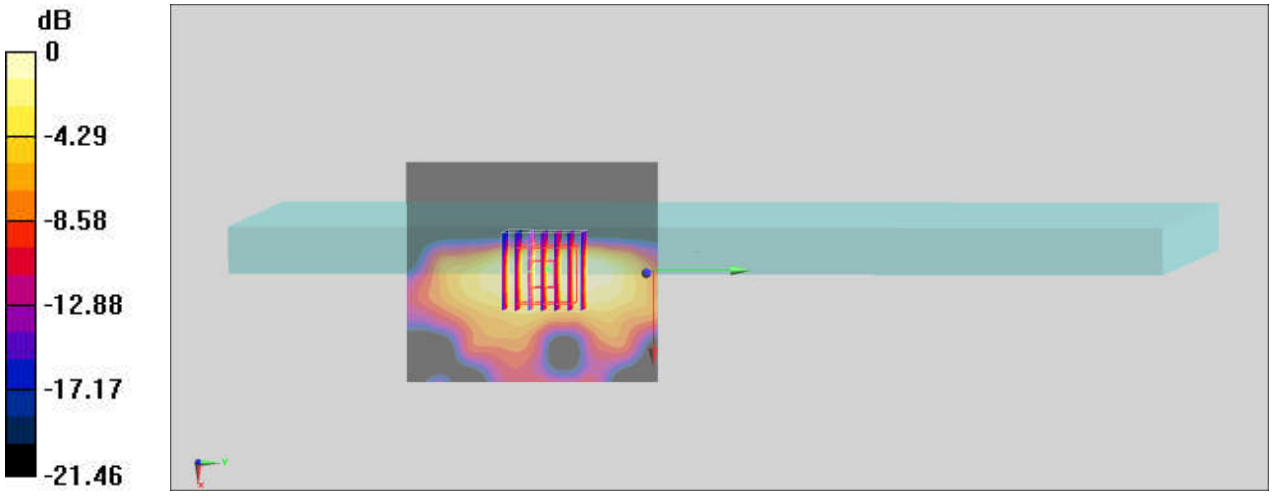
#05_Bluetooth_1Mbps_Edge 3_0mm_Ch0;Ant 2

Communication System: Bluetooth; Frequency: 2402 MHz;Duty Cycle: 1:1.305
Medium: MSL_2450_181220 Medium parameters used : f = 2402 MHz; σ = 1.933 S/m; ε_r = 53.382; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3976; ConvF(7.8, 7.8, 7.8) ; Calibrated: 2018/1/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1041
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0748 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.506 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0640 W/kg
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.015 W/kg
Maximum value of SAR (measured) = 0.0491 W/kg



0 dB = 0.0491 W/kg = -13.09 dBW/kg