Test Laboratory :Sporton International Inc. SAR Testing Lab Date: 2014/03/14

FCC 2.4G System Validation-20140314

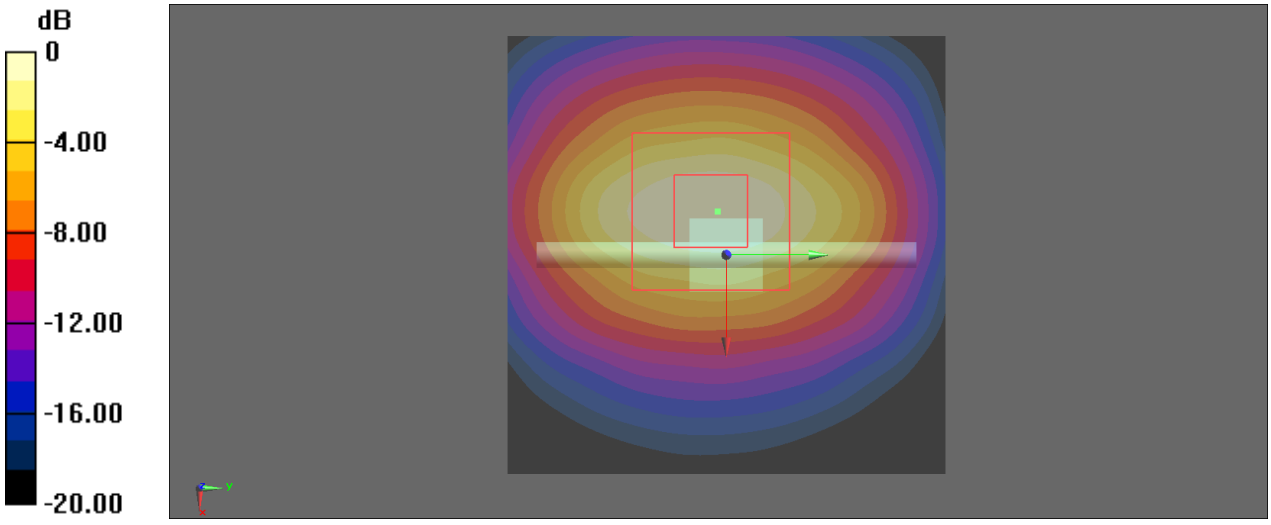
Communication System: CW ; Frequency: 2450 MHz ; Duty Cycle: 1:1
Medium: MSL_2.4G; Medium parameters used: f = 2450 MHz; σ = 1.956 S/m; ε_r = 51.321; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(7.4, 7.4, 7.4); Calibrated: 2014/02/17;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2013/12/02
- Phantom: ELI v4.0 right; Type: QDOVA001BB; Serial: TP:1232
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10(7164)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 19.8 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 100.2 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 25.1 W/kg
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.68 W/kg
Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

Test Laboratory :Sporton International Inc. SAR Testing Lab Date: 2014/03/14

FCC 5.2G System Validation-20140314

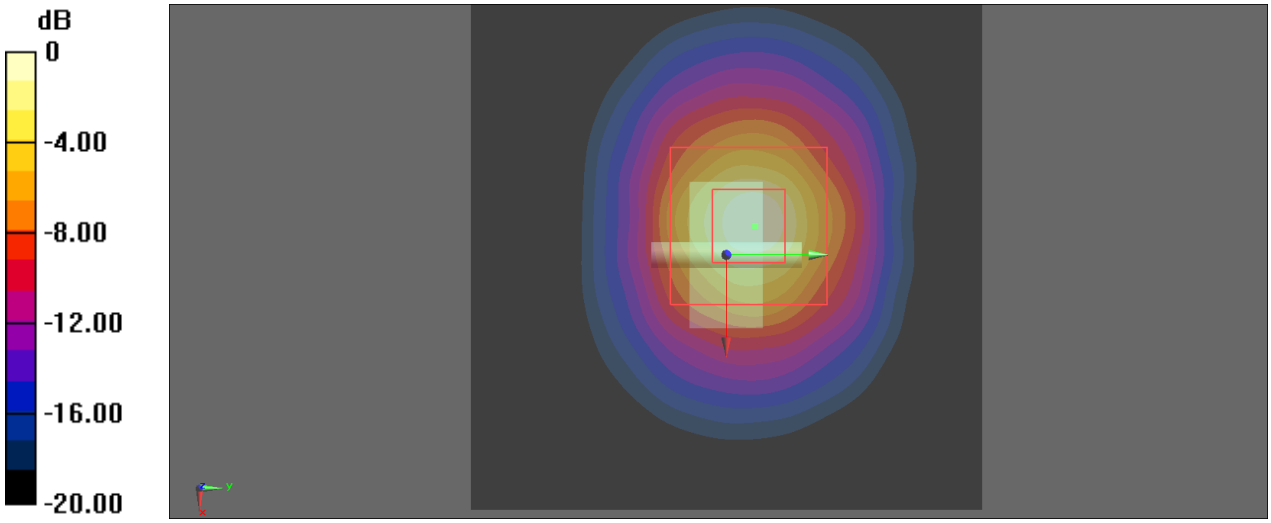
Communication System: CW ; Frequency: 5200 MHz ; Duty Cycle: 1:1
Medium: MSL_5G; Medium parameters used: f = 5200 MHz; σ = 5.26 S/m; ε_r = 47.81; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(4.61, 4.61, 4.61); Calibrated: 2014/02/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2013/12/02
- Phantom: ELI v4.0 front; Type: QDOVA001BB; Serial: TP:1233
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10(7164)

Configuration/Pin=100mW/Area Scan (71x71x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.02 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.264 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 31.05 W/kg
SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.12 W/kg
Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg = 12.81 dBW/kg

Test Laboratory :Sporton International Inc. SAR Testing Lab Date: 2014/03/14

FCC 5.5G System Validation-20140314

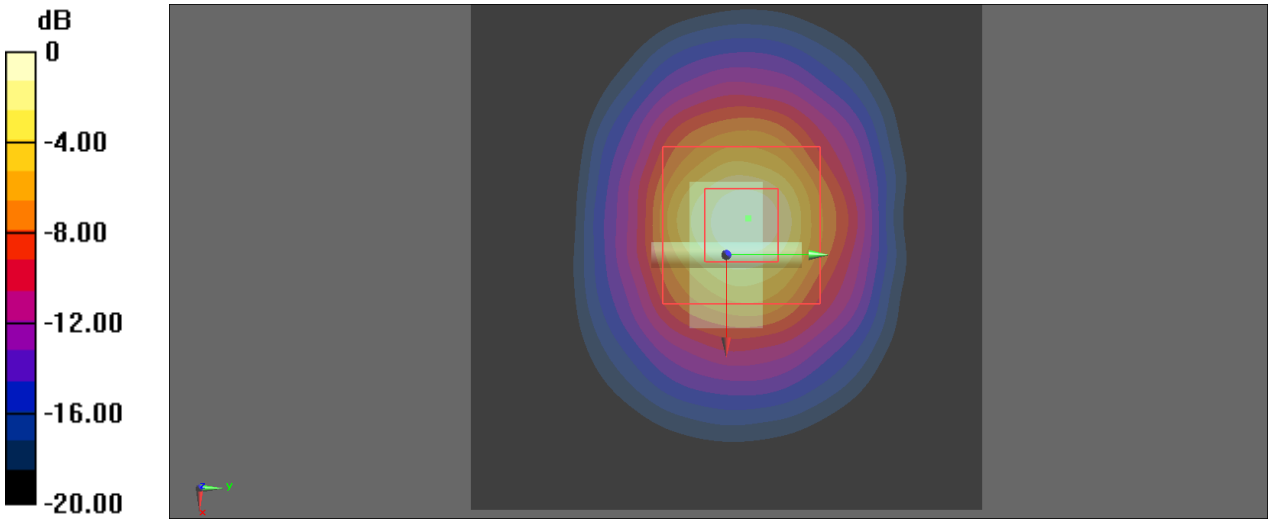
Communication System: CW ; Frequency: 5500 MHz ; Duty Cycle: 1:1
Medium: MSL_5G; Medium parameters used: f = 5500 MHz; σ = 5.66 S/m; ε_r = 47.397; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(4.7, 4.7, 4.7); Calibrated: 2014/02/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2013/12/02
- Phantom: ELI v4.0 front; Type: QDOVA001BB; Serial: TP:1233
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10(7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.34 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 68.912 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 35.2 W/kg
SAR(1 g) = 8.39 W/kg; SAR(10 g) = 2.39 W/kg
Maximum value of SAR (measured) = 20.48 W/kg



0 dB = 20.48 W/kg = 13.11 dBW/kg

Test Laboratory :Sporton International Inc. SAR Testing Lab Date: 2014/03/14

FCC 5.8G System Validation-20140314

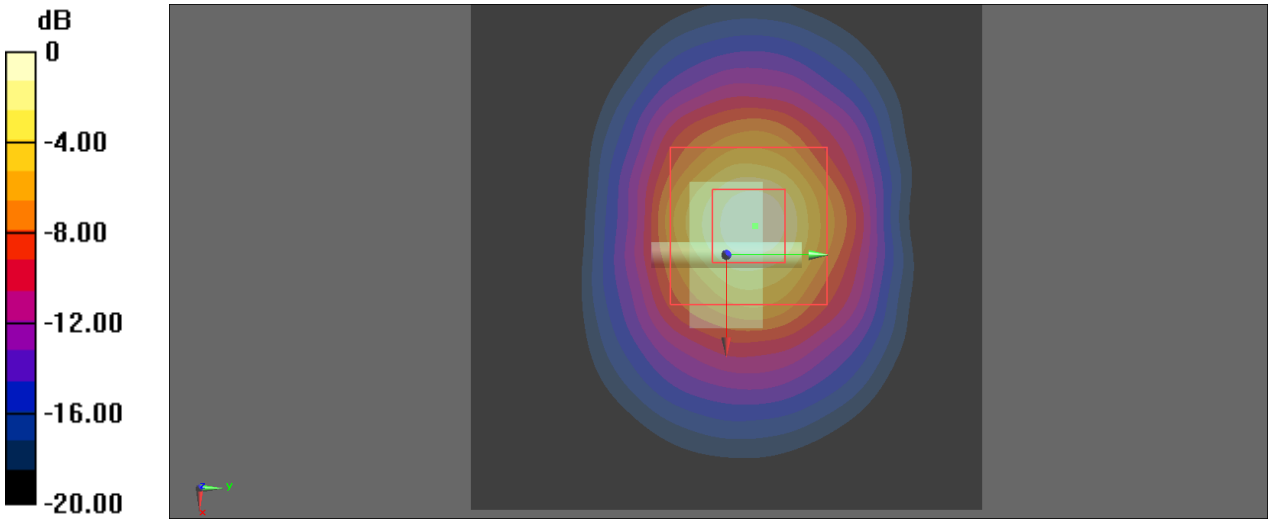
Communication System: CW ; Frequency: 5800 MHz ; Duty Cycle: 1:1
Medium: MSL_5G; Medium parameters used: f = 5800 MHz; σ = 6.05 S/m; ε_r = 46.827; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(4.26, 4.26, 4.26); Calibrated: 2014/02/17;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2013/12/02
- Phantom: ELI v4.0 front; Type: QDOVA001BB; Serial: TP:1233
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10(7164)

Configuration/Pin=100mW/Area Scan (71x71x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 18.64 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 62.433 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 35.1 W/kg
SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.9 dBW/kg