Appendix A. Plots of System Performance Check

The plots are shown as follows.

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011-12-14

System Check_Head_835MHz_111214

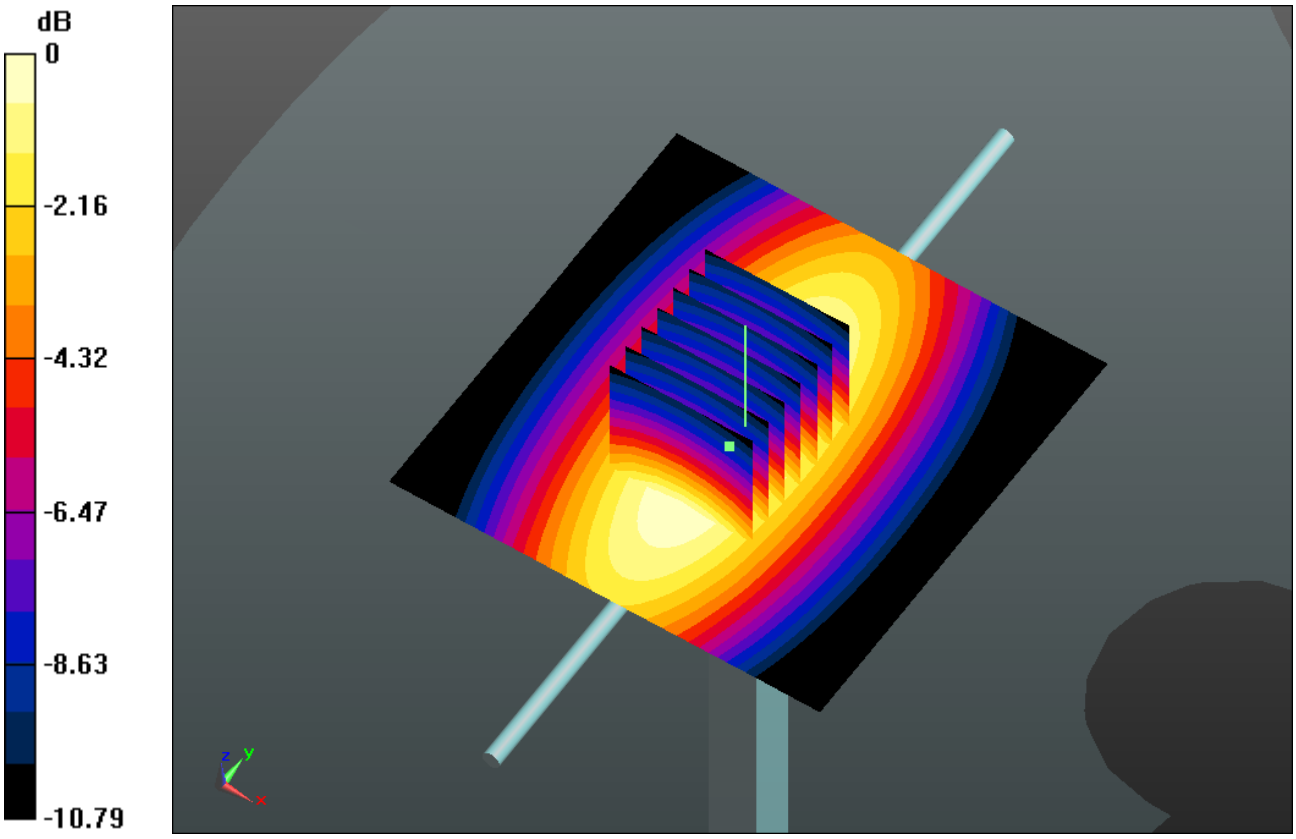
DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL_835_111214 Medium parameters used: f = 835 MHz; σ = 0.92 mho/m; ε_r = 40.804; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(8.45, 8.45, 8.45); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.575 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.413 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.512 W/kg
SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.49 mW/g
Maximum value of SAR (measured) = 2.472 mW/g



0 dB = 2.470mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011-12-14

System Check_Body_835MHz_111214

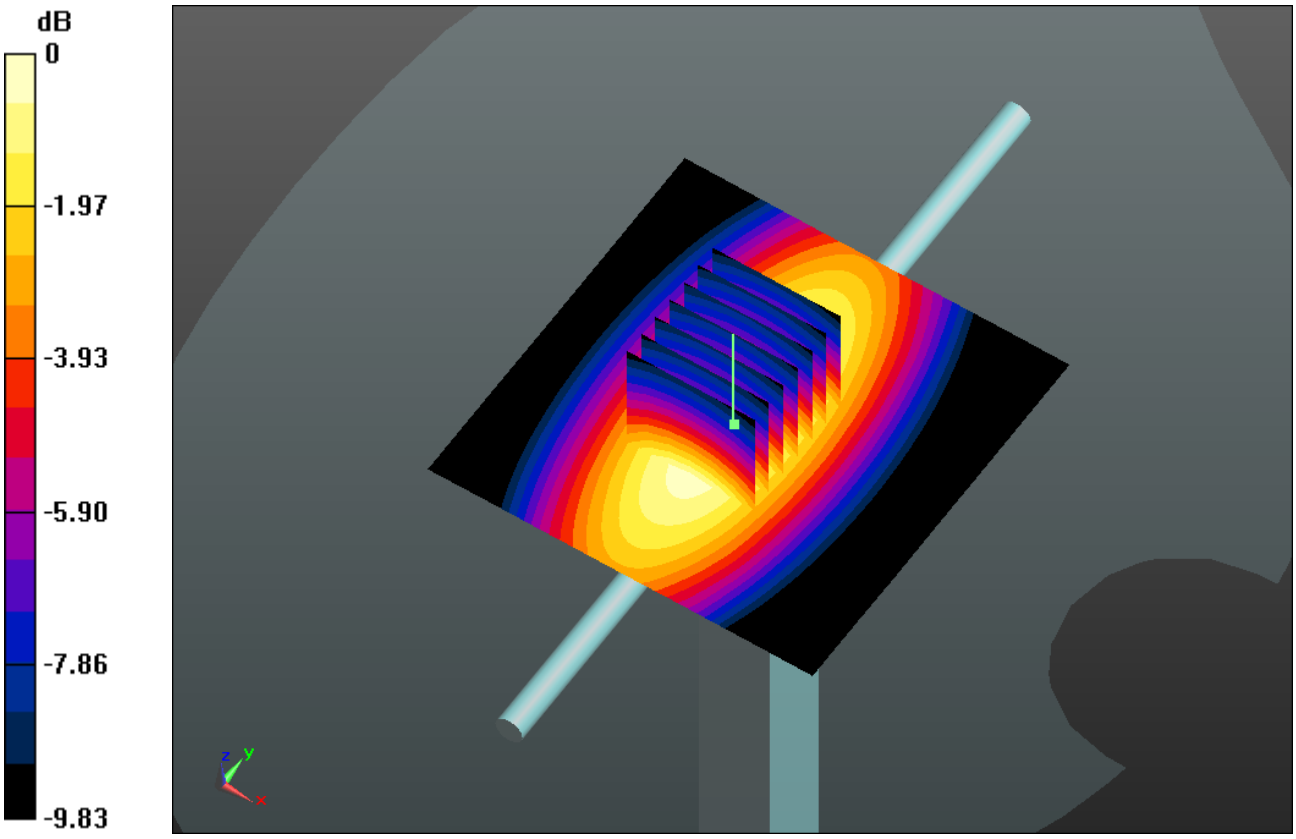
DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_835_111214 Medium parameters used: f = 835 MHz; σ = 0.974 mho/m; ε_r = 54.283; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：21.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(8.67, 8.67, 8.67); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.715 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.803 V/m; Power Drift = -0.00065 dB
Peak SAR (extrapolated) = 3.704 W/kg
SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.67 mW/g
Maximum value of SAR (measured) = 2.702 mW/g



0 dB = 2.700mW/g

System Check_Head_1900MHz_111214

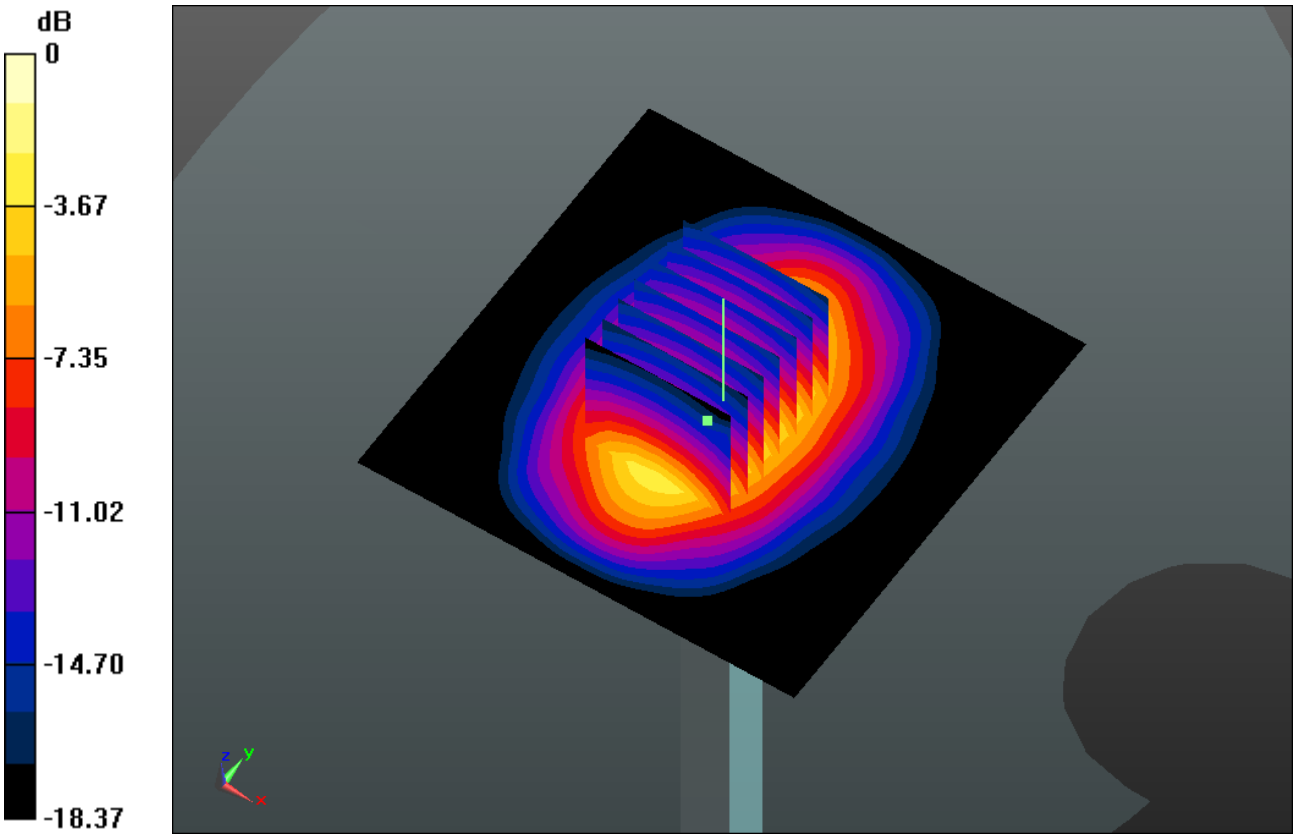
DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL_1900_111214 Medium parameters used: f = 1900 MHz; σ = 1.417 mho/m; ε_r = 39.706; ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：21.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(7.46, 7.46, 7.46); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.323 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.253 V/m; Power Drift = -0.0036 dB
Peak SAR (extrapolated) = 18.964 W/kg
SAR(1 g) = 10 mW/g; SAR(10 g) = 5.14 mW/g
Maximum value of SAR (measured) = 11.238 mW/g



0 dB = 11.240mW/g

System Check_Body_1900MHz_111214

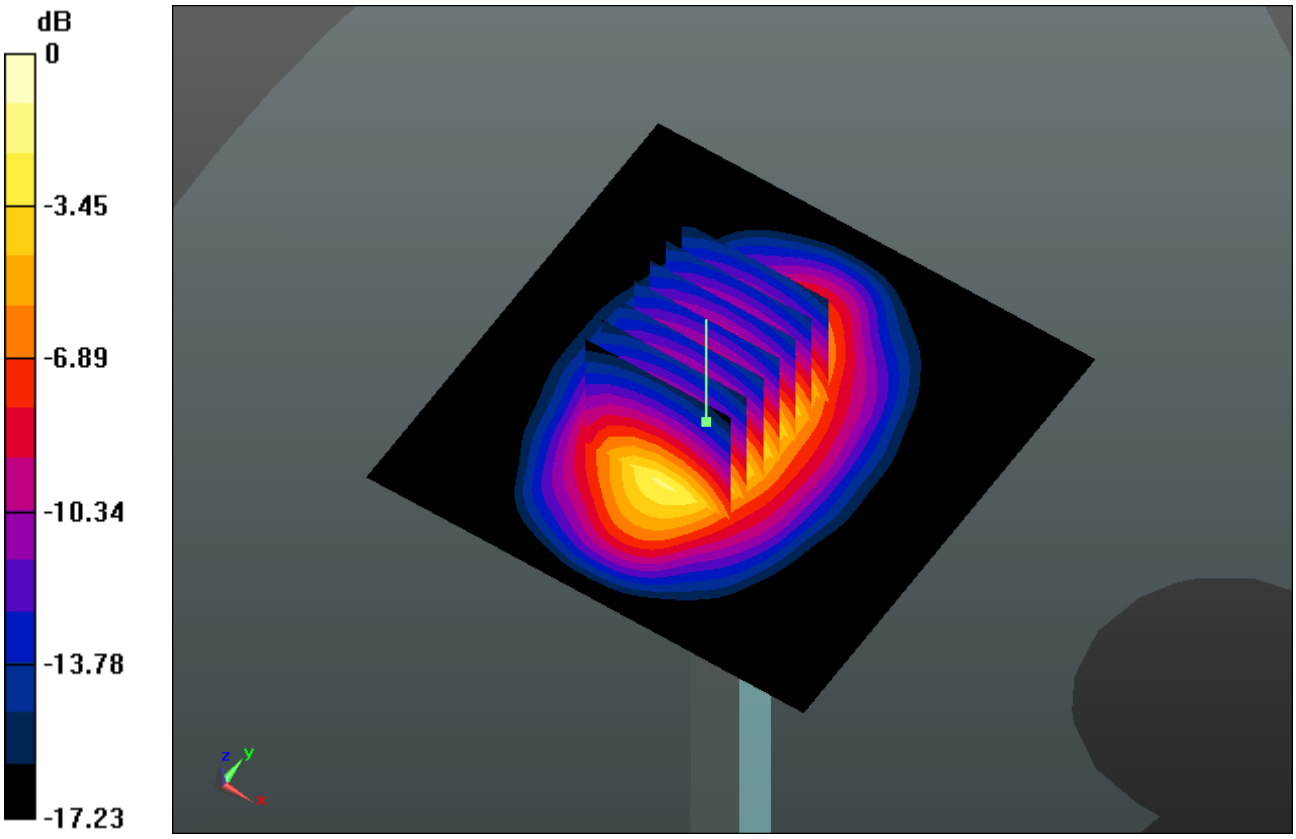
DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900_111214 Medium parameters used: f = 1900 MHz; σ = 1.535 mho/m; ε_r = 54.565; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3697; ConvF(6.96, 6.96, 6.96); Calibrated: 2011-9-2
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2011-11-18
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.4.5 (3634)

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.836 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.260 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 19.198 W/kg
SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.43 mW/g
Maximum value of SAR (measured) = 11.708 mW/g



0 dB = 11.710mW/g