Appendix A. System Check Plots

Table of contents
SystemPerformanceCheck-D835-EX-Head
SystemPerformanceCheck-D835-EX-Body
SystemPerformanceCheck-D835-EX-Body
SystemPerformanceCheck-D1900-EX-Head
SystemPerformanceCheck-D1900-EX-Body
SystemPerformanceCheck-D2450-EX- Head
SystemPerformanceCheck-D2450-EX-Body

Date/Time: 2012-10-4 16:02:42

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D835-EX-Head

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

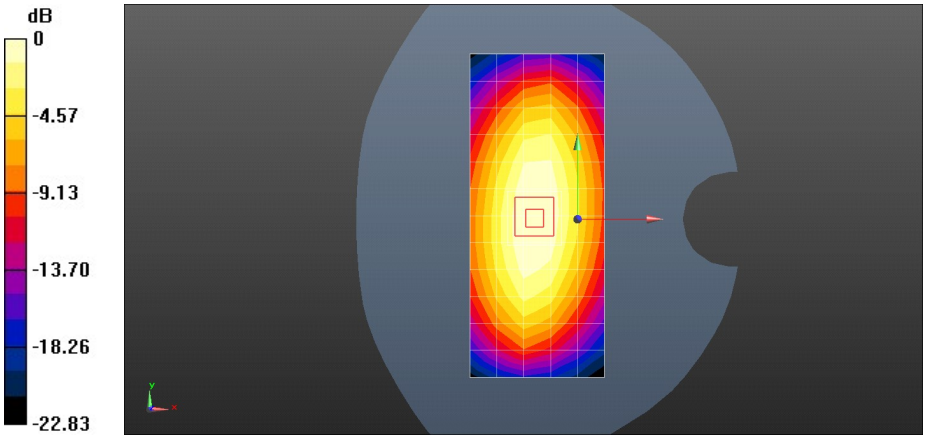
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.917 mho/m; ε_r = 41.17; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(9.01, 9.01, 9.01); Calibrated: 2012-4-26;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2011-11-16
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=15mm,pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.43 W/kg

Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.334 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.62 W/kg
Maximum value of SAR (measured) = 2.68 W/kg



0 dB = 2.43 W/kg = 3.86 dBW/kg

Date/Time: 2012-10-5 11:22:16

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

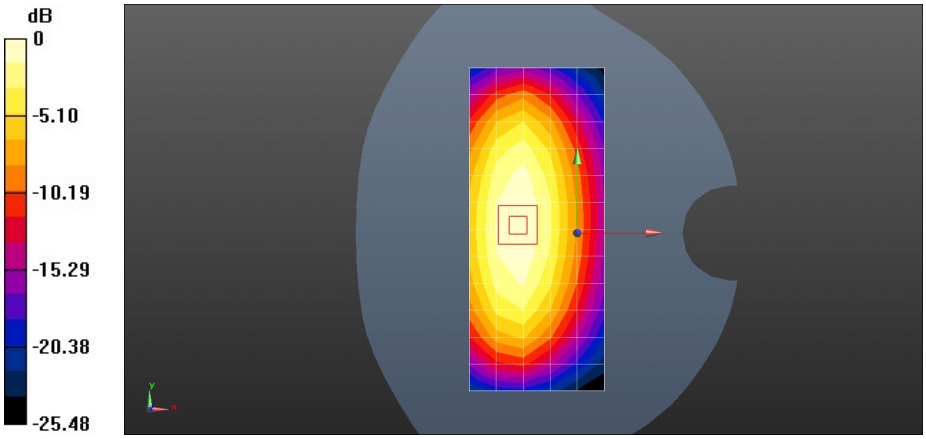
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.971 mho/m; ε_r = 53.085; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-4-26;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2011-11-16
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=15mm,pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.70 W/kg

Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 39.449 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.57 W/kg; SAR(10 g) = 1.68 W/kg
Maximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.70 W/kg = 4.32 dBW/kg

Date/Time: 2012-10-15 21:52:30

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D835-EX-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126

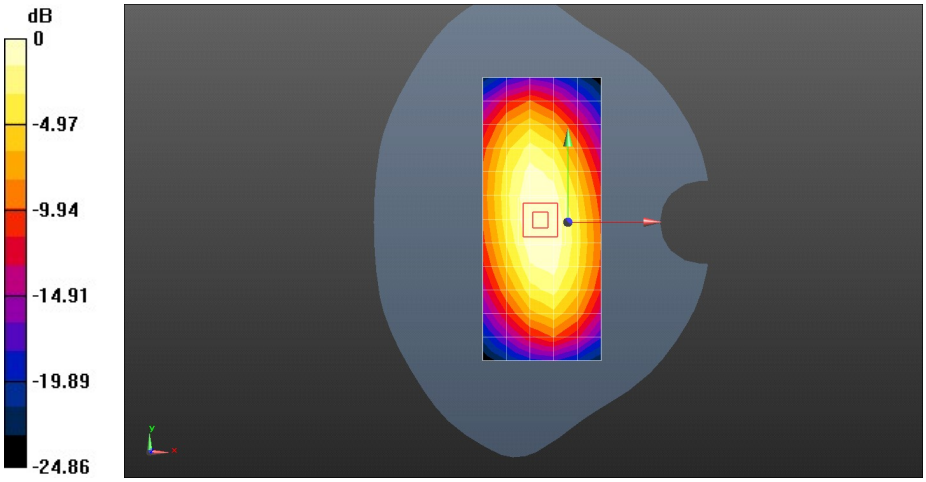
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.988 mho/m; ε_r = 56.611; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-4-26;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2011-11-16
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=15mm,pin=250mW/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.40 W/kg

Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.765 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 3.69 W/kg
SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.63 W/kg
Maximum value of SAR (measured) = 2.69 W/kg



0 dB = 2.40 W/kg = 3.81 dBW/kg

Date/Time: 2012-10-5 17:50:28

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D1900-EX-Head

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d143

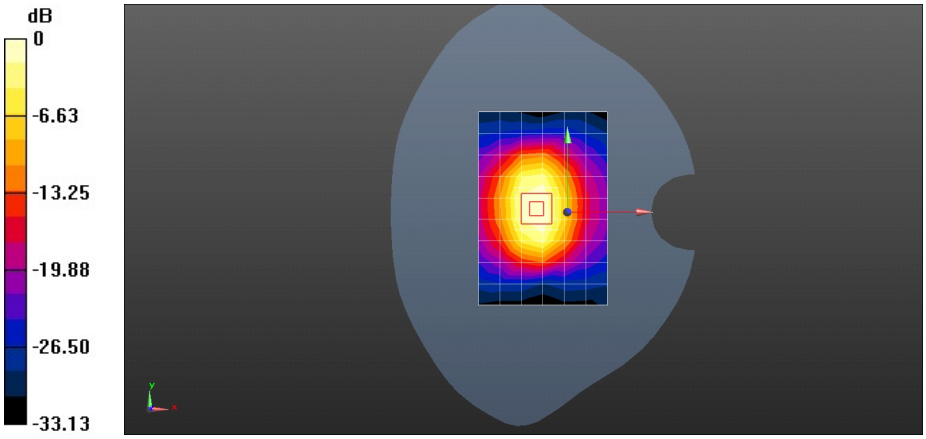
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.454 mho/m; ε_r = 41.456; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.67, 7.67, 7.67); Calibrated: 2012-4-26;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2011-11-16
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=10mm, Pin=250mW/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 8.86 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 80.858 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 19.0 W/kg
SAR(1 g) = 9.74 W/kg; SAR(10 g) = 4.92 W/kg
Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 8.86 W/kg = 9.47 dBW/kg

Date/Time: 2012-10-6 13:26:26

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d143

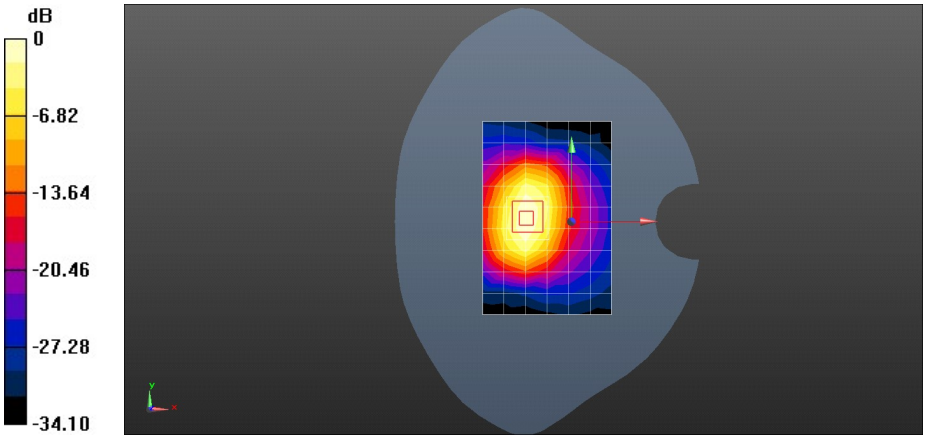
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.524 mho/m; ε_r = 53.533; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.14, 7.14, 7.14); Calibrated: 2012-4-26;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2011-11-16
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=10mm, Pin=250mW/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.1 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.879 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 20.2 W/kg
SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.4 W/kg
Maximum value of SAR (measured) = 12.2 W/kg



0 dB = 11.1 W/kg = 10.45 dBW/kg

Date/Time: 2012-10-12 12:30:45

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D2450-EX-Head

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860

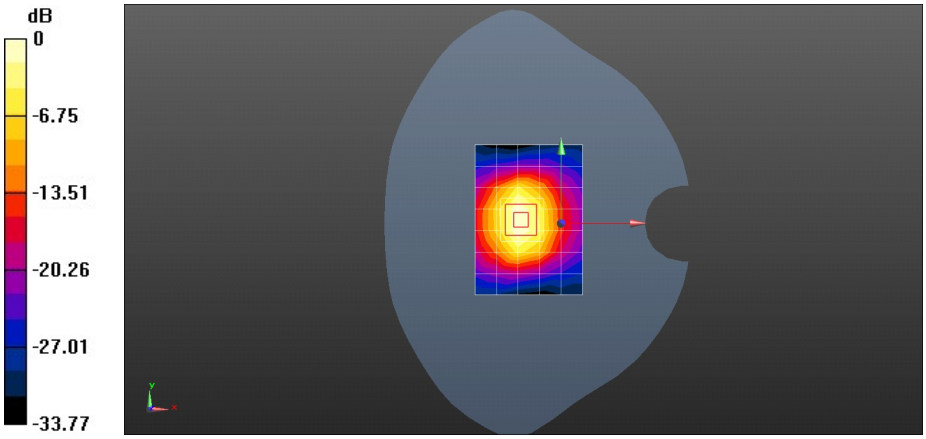
Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.815 mho/m; ε_r = 40.138; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.82, 6.82, 6.82); Calibrated: 2012-7-27;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2012-7-25
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=10mm, Pin=250mW/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 12.9 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 62.541 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 29.4 W/kg
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 5.99 W/kg
Maximum value of SAR (measured) = 15.2 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

Date/Time: 2012-10-14 8:56:23

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D2450-EX-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860

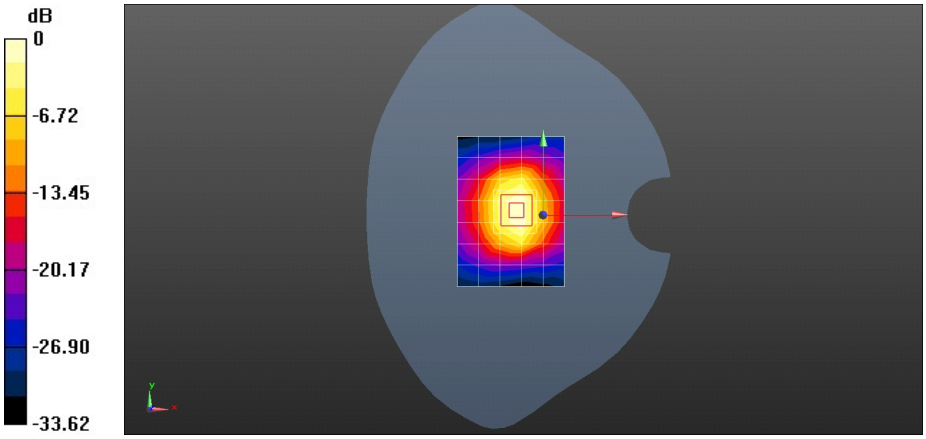
Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 2.005 mho/m; ε_r = 52.51; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.92, 6.92, 6.92); Calibrated: 2012-7-27;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2012-7-25
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.2(969); SEMCAD X 14.6.7(6848)

Configuration/d=10mm, Pin=250mW/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 11.6 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 85.274 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 29.6 W/kg
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 5.92 W/kg
Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 11.6 W/kg = 10.64 dBW/kg