



Appendix A. System Check Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D835-ES-Head

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.236$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.26, 6.26, 6.26); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn852; Calibrated: 2013-11-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=15mm, Pin=250mW/Area Scan (6x15x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.74 W/kg

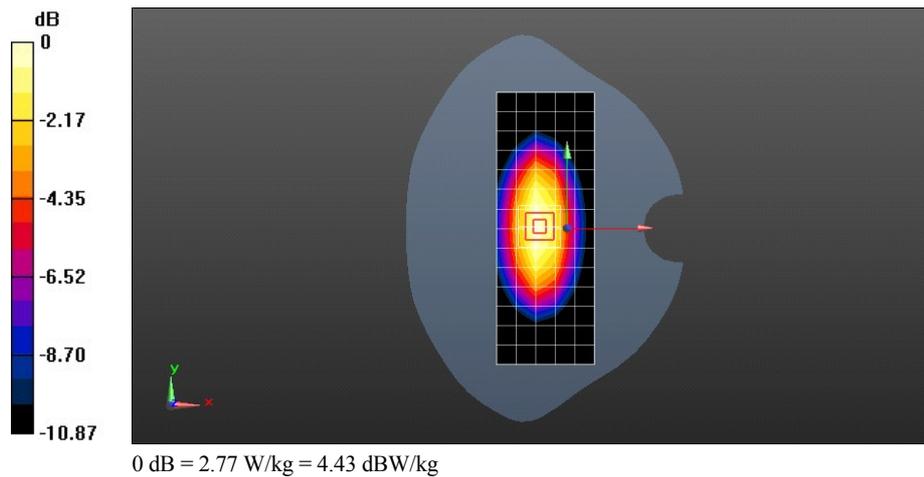
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 52.031 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.77 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D835-ES-Body

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d059

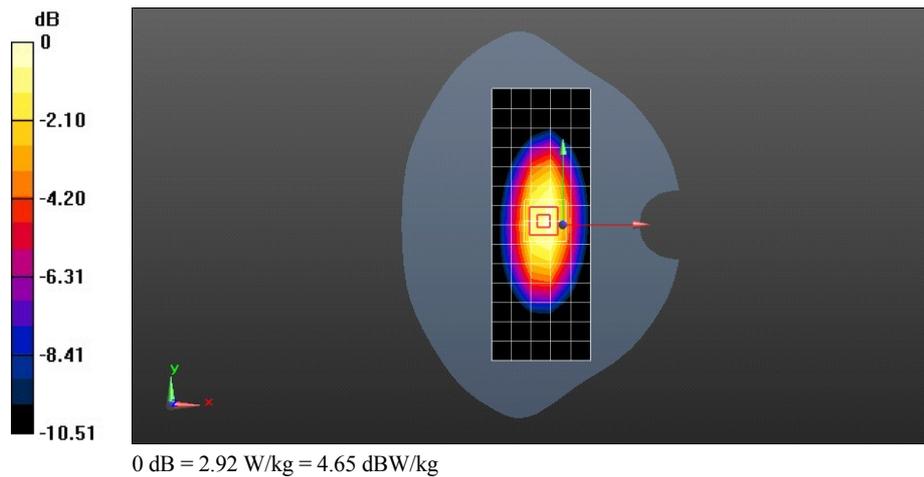
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 835$ MHz; $\sigma = 0.955$ S/m; $\epsilon_r = 53.515$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn852; Calibrated: 2013-11-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=15mm, Pin=250mW/Area Scan (6x15x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 2.69 W/kg

Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 54.136 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 3.67 W/kg
SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.65 W/kg
 Maximum value of SAR (measured) = 2.92 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-ES-Head

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

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 40.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.15, 5.15, 5.15); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn852; Calibrated: 2013-11-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 11.2 W/kg

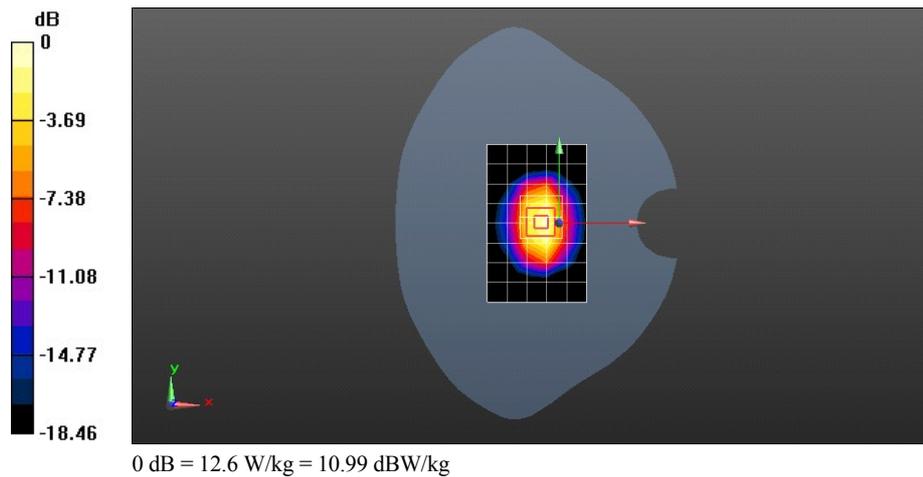
Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 88.540 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 18.3 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.28 W/kg

Maximum value of SAR (measured) = 12.6 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D1900-ES-Body

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

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 51.534$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn852; Calibrated: 2013-11-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 9.62 W/kg

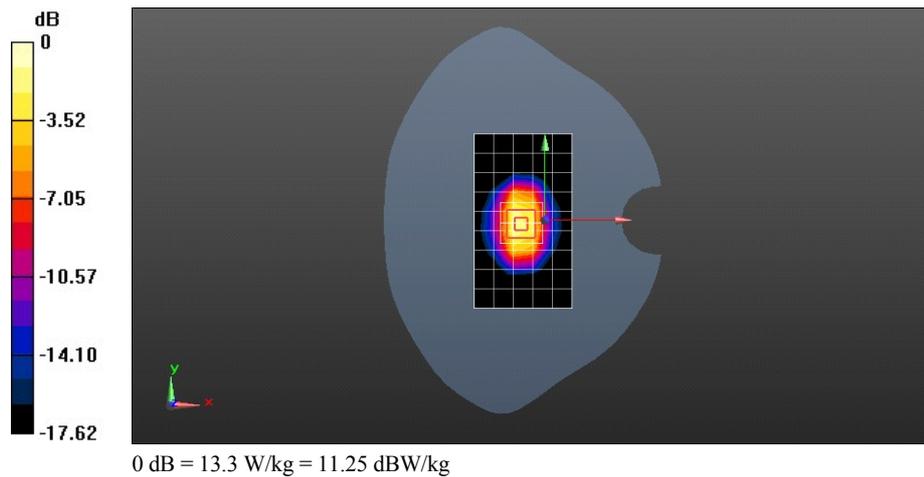
Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 88.049 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.44 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2450-ES-Head

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:735

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.823$ S/m; $\epsilon_r = 38.863$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.52, 4.52, 4.52); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn852; Calibrated: 2013-11-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 18.1 W/kg

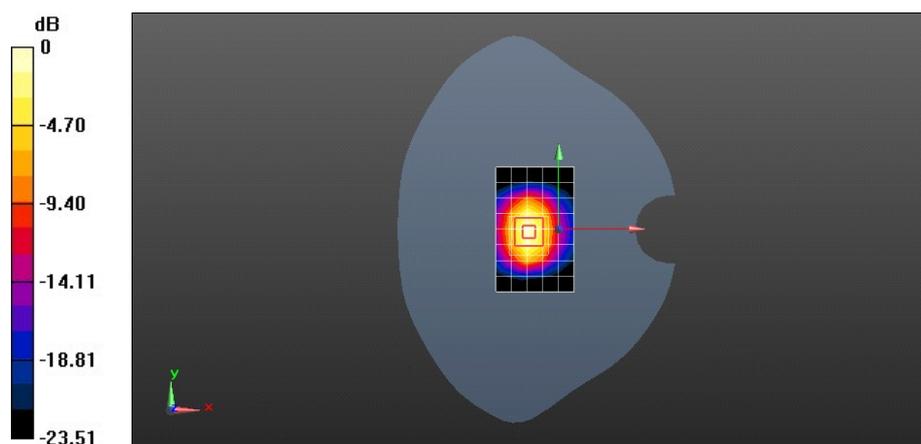
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 83.909 V/m; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 29.8 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.42 W/kg

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.69 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2450-ES-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:735

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.013$ S/m; $\epsilon_r = 51.171$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.25, 4.25, 4.25); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn852; Calibrated: 2013-11-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=250mW/Area Scan (6x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 15.4 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 90.882 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.4 W/kg

Maximum value of SAR (measured) = 18.5 W/kg

