



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: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 41.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.28, 6.28, 6.28); Calibrated: 2012-10-2;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=15mm, pin=250mW/Area Scan (6x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.10 W/kg

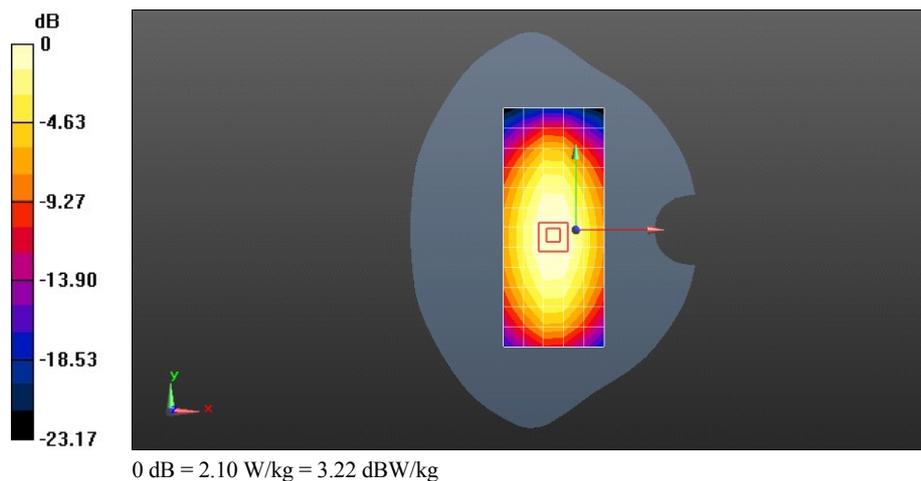
Configuration/d=15mm, pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 51.398 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.27 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.46 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: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 53.862$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.14, 6.14, 6.14); Calibrated: 2012-10-2;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=15mm,pin=250mW/Area Scan (6x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.39 W/kg

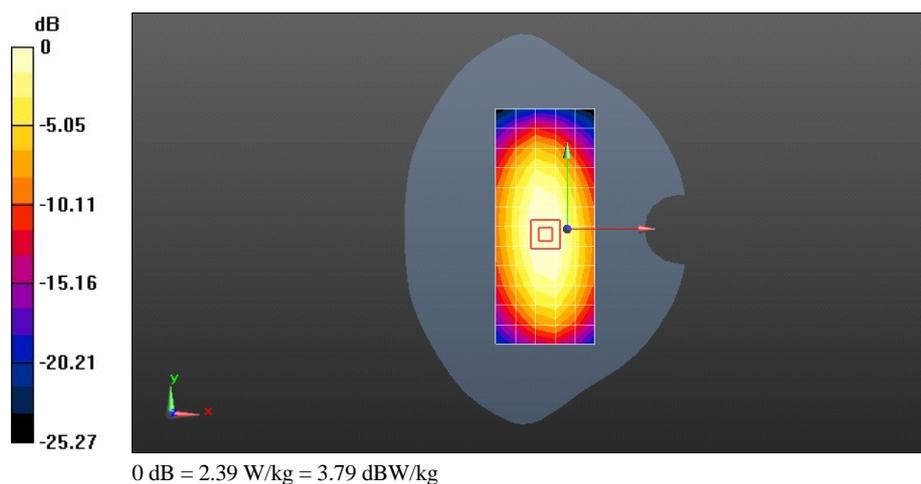
Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 54.827 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.75 W/kg

SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.67 W/kg

Maximum value of SAR (measured) = 2.77 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: CW; 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(5.26, 5.26, 5.26); Calibrated: 2012-10-2;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 10.8 W/kg

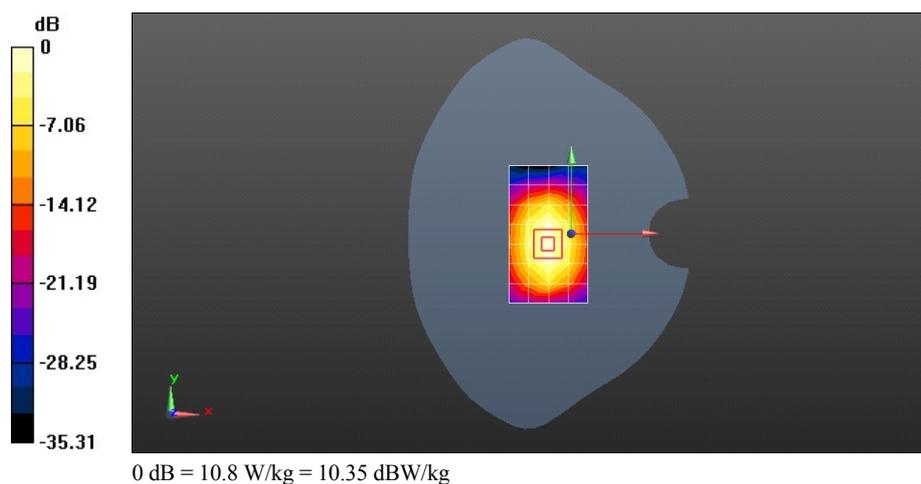
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 85.611 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 9.6 W/kg; SAR(10 g) = 4.88 W/kg

Maximum value of SAR (measured) = 10.7 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: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.503$ S/m; $\epsilon_r = 53.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.86, 4.86, 4.86); Calibrated: 2012-10-2;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=250mW/Area Scan (8x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 10.2 W/kg

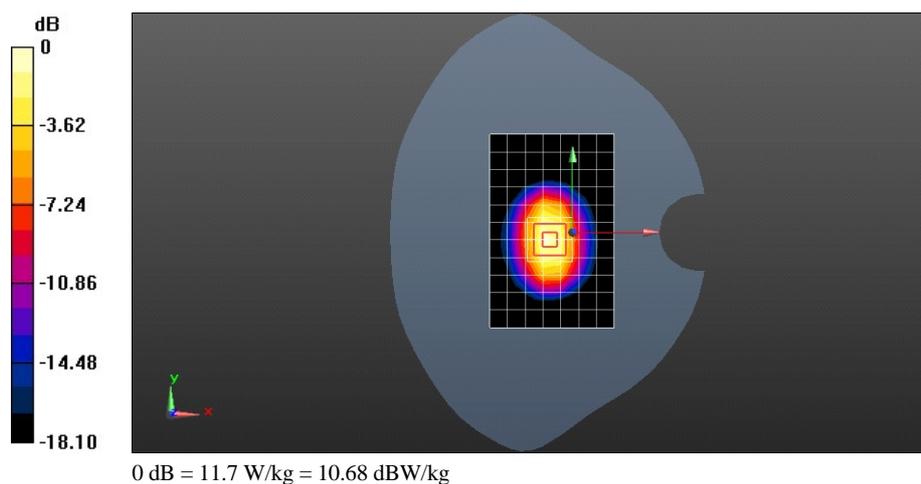
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 88.527 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.25 W/kg

Maximum value of SAR (measured) = 11.7 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2450-ES-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; $\sigma = 1.823$ S/m; $\epsilon_r = 38.847$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.57, 4.57, 4.57); Calibrated: 2012-10-2;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=250mW/Area Scan (7x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 14.7 W/kg

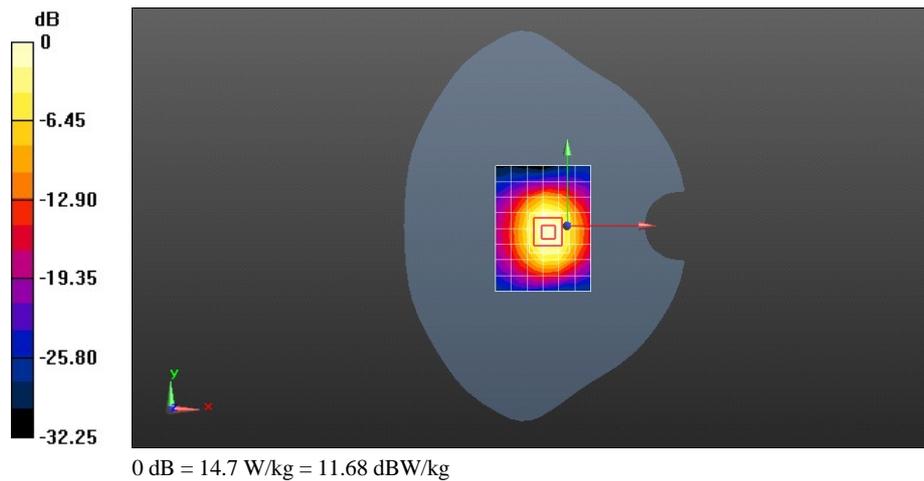
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 95.397 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.66 W/kg

Maximum value of SAR (measured) = 16.6 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

SystemPerformanceCheck-D2450-ES-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; $\sigma = 1.988$ S/m; $\epsilon_r = 51.983$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.38, 4.38, 4.38); Calibrated: 2012-10-2;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/d=10mm, Pin=250mW/Area Scan (7x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 16.3 W/kg

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

Reference Value = 92.699 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.39 W/kg

Maximum value of SAR (measured) = 16.1 W/kg

