

**Appendix A. System Check Plots**

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Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D750-EX-Head

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 41.358$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(9.44, 9.44, 9.44); Calibrated: 2015/7/24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM5; Type: QD000P40CD; Serial: TP:1894
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.43 W/kg

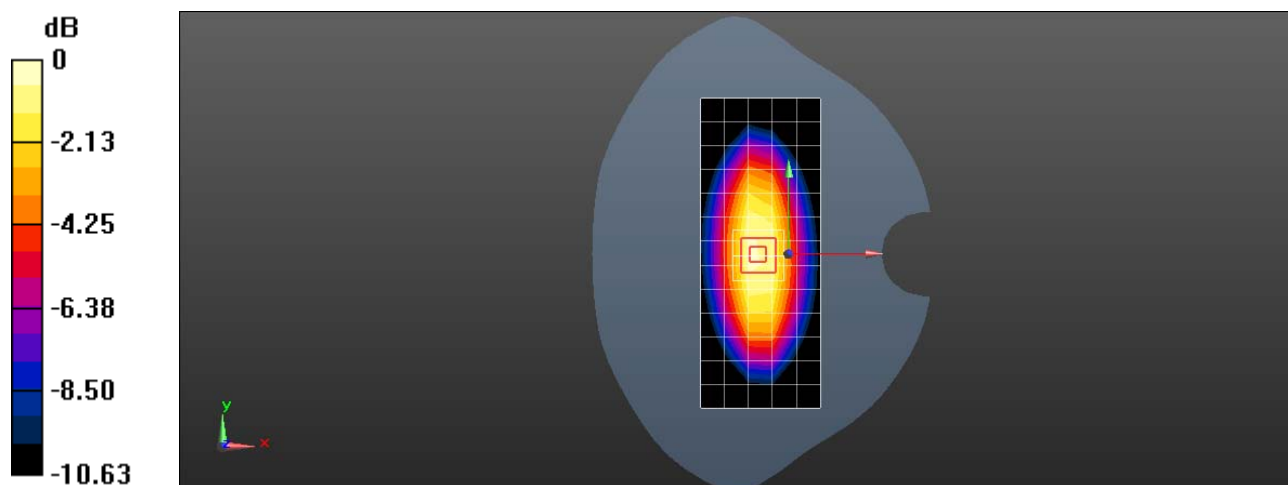
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 52.52 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 2.76 W/kg



0 dB = 2.76 W/kg = 4.40 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D750-EX-Body

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1044

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.954$ S/m; $\epsilon_r = 55.504$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3744; ConvF(9.01, 9.01, 9.01); Calibrated: 2015/7/24;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/d=15mm, Pin=250mW/Area Scan (6x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.47 W/kg

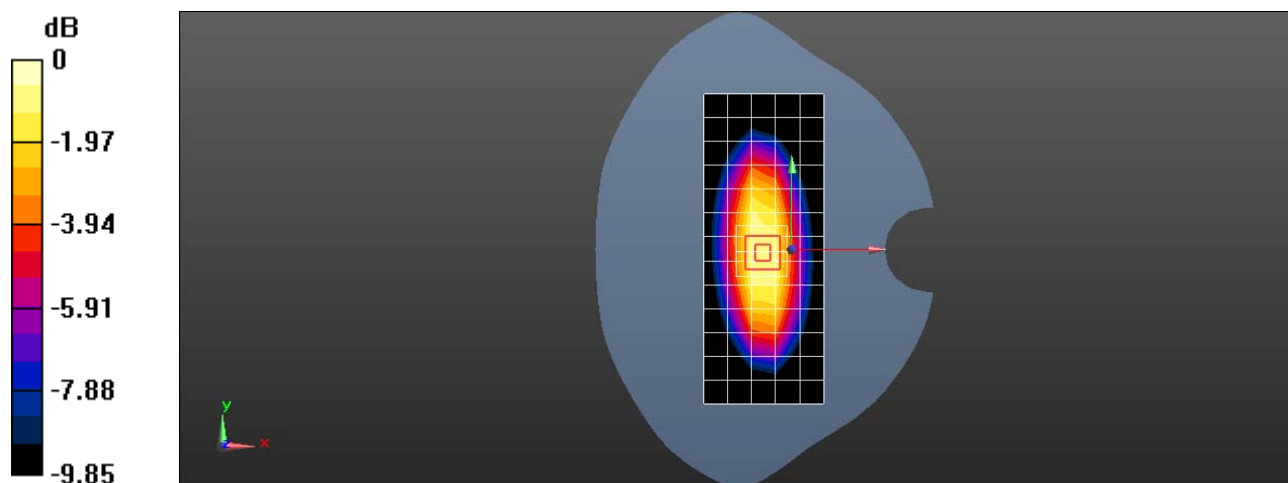
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 49.70 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.46 W/kg

Maximum value of SAR (measured) = 2.89 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D835-EX-Head

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

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 41.733$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(9.76, 9.76, 9.76); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM5; Type: QD000P40CD; Serial: TP:1894
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

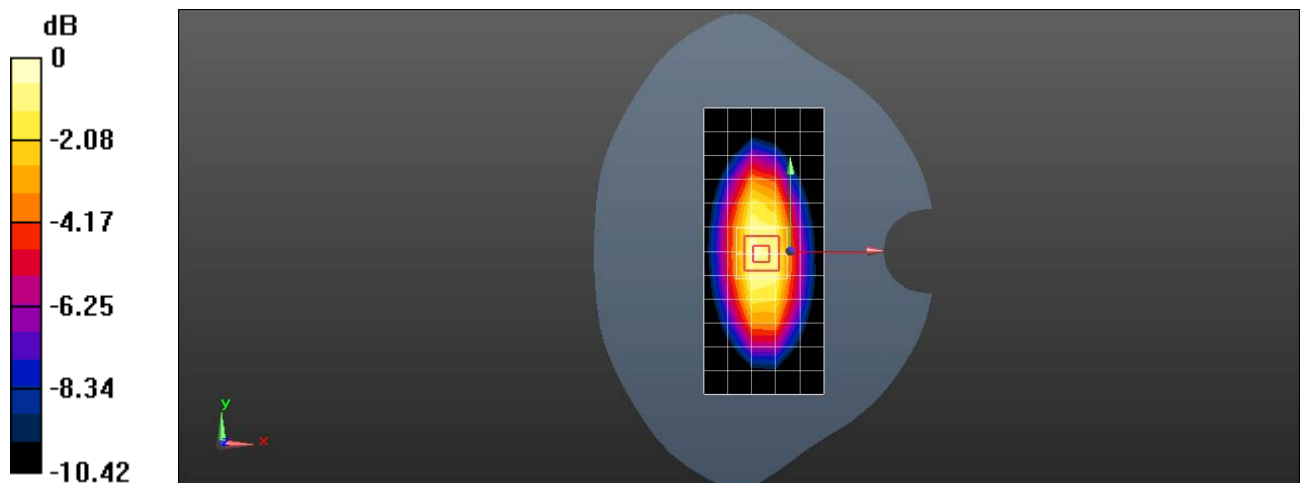
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 51.74 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D835-EX-Body

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

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.978$ S/m; $\epsilon_r = 52.59$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(9.67, 9.67, 9.67); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 3.06 W/kg

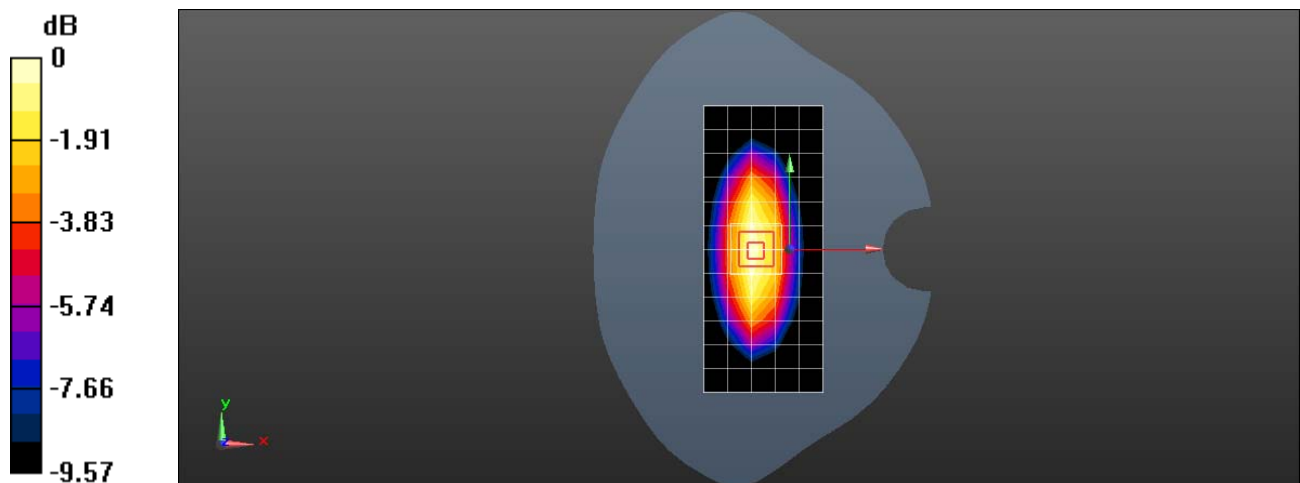
Configuration/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 49.70 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (measured) = 3.04 W/kg



0 dB = 3.04 W/kg = 4.83 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D1750-EX-Head

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1145

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 40.701$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(8.25, 8.25, 8.25); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM5; Type: QD000P40CD; Serial: TP:1894
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 10.7 W/kg

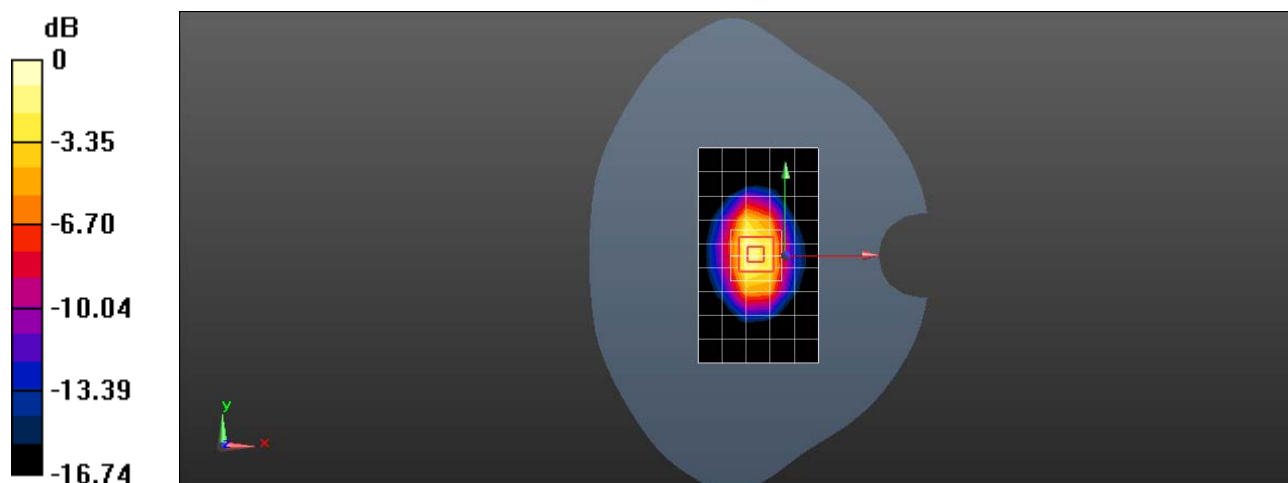
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 84.50 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 9.31 W/kg; SAR(10 g) = 5.03 W/kg

Maximum value of SAR (measured) = 14.0 W/kg



0 dB = 14.0 W/kg = 11.46 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D1750-EX-Body

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1145

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.509$ S/m; $\epsilon_r = 51.723$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.82, 7.82, 7.82); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 10.7 W/kg

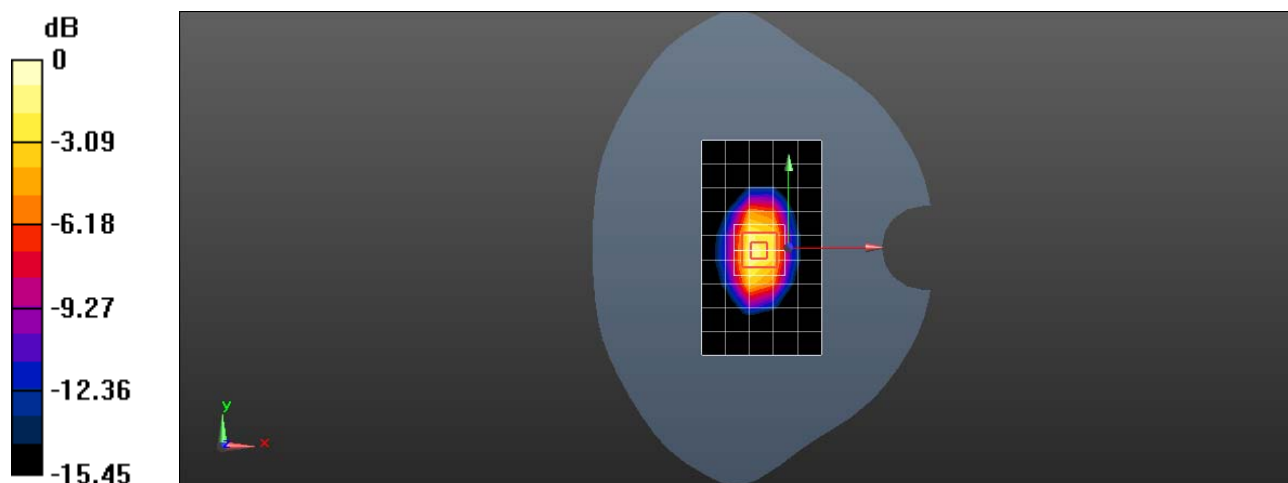
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 82.17 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5.33 W/kg

Maximum value of SAR (measured) = 14.0 W/kg



0 dB = 14.0 W/kg = 11.45 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D1900-EX-Head

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 40.474$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.98, 7.98, 7.98); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM5; Type: QD000P40CD; Serial: TP:1894
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 10.1 W/kg

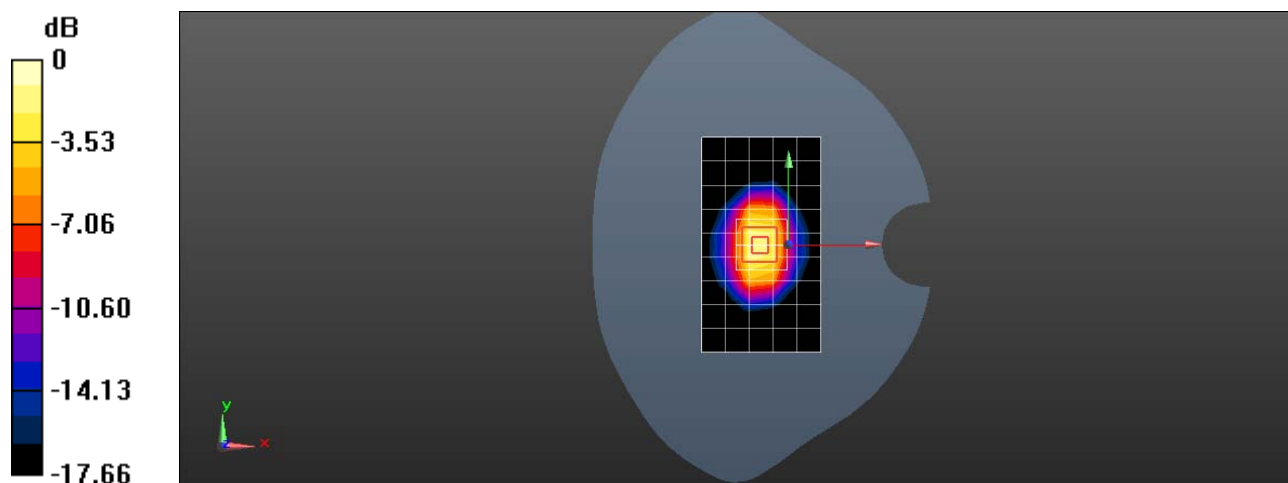
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 86.93 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.85 W/kg; SAR(10 g) = 5.19 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.71 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D1900-EX-Body

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d091

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.554$ S/m; $\epsilon_r = 53.839$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.6, 7.6, 7.6); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

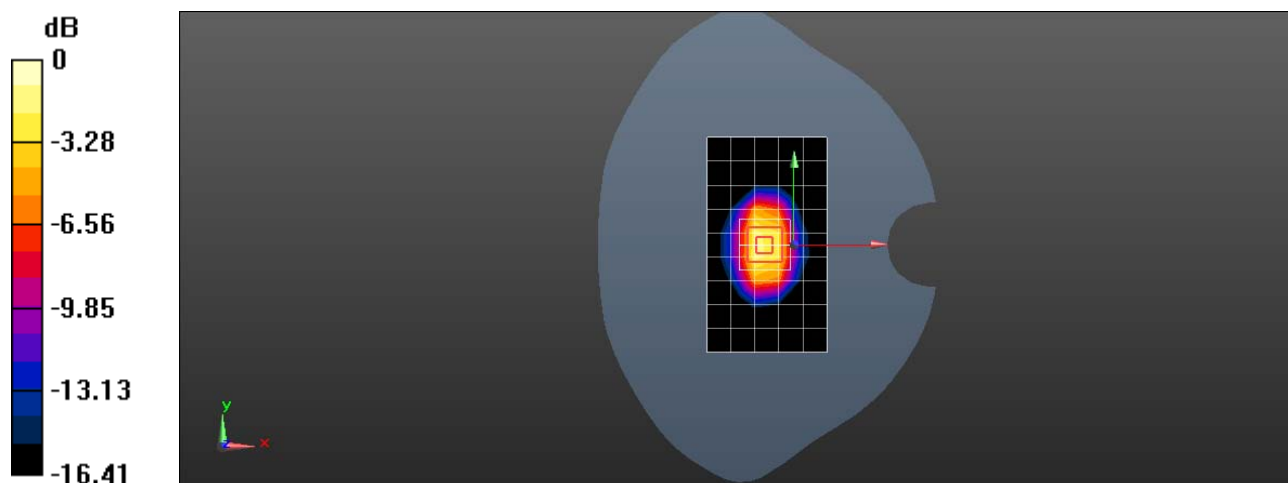
Configuration/d=10mm pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 84.73 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.45 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.71 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D2450-EX-Head

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:978

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.826$ S/m; $\epsilon_r = 40.123$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.18, 7.18, 7.18); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM5; Type: QD000P40CD; Serial: TP:1894
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 12.8 W/kg

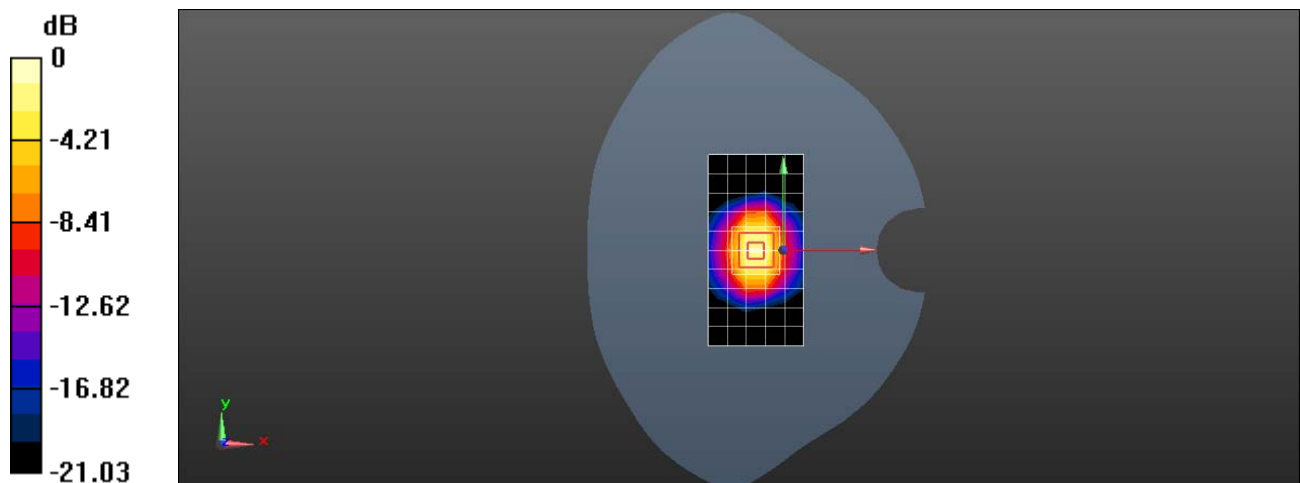
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 88.65 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 24.5 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 6 W/kg

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



0 dB = 16.6 W/kg = 12.20 dBW/kg

Test Laboratory: HUAWEI SAR Lab

SystemPerformanceCheck-D2450-EX-Body

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:978

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.989$ S/m; $\epsilon_r = 53.184$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.22, 7.22, 7.22); Calibrated: 2015/10/30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2015/10/22
- ε Phantom: SAM6; Type: QD000P40CD; Serial: TP:1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 14.8 W/kg

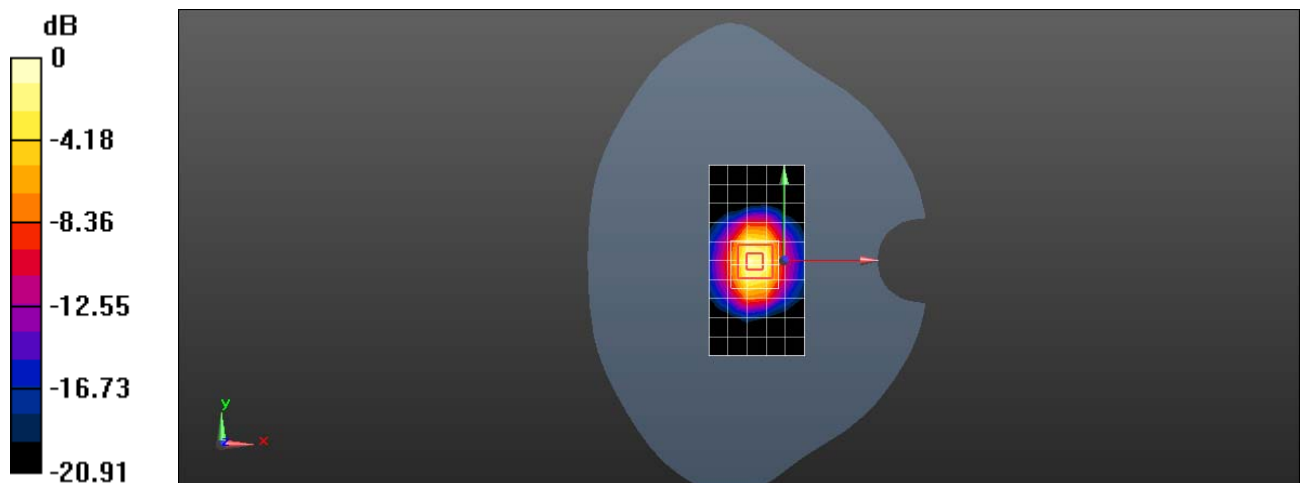
Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 81.01 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 22.7 W/kg

SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.66 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.75 dBW/kg