



## Appendix A. System Check Plots

<b>Table of contents</b>
SystemPerformanceCheck-D2450-ES-Body
SystemPerformanceCheck-D5250-EX-Body
SystemPerformanceCheck-D5600-EX-Body
SystemPerformanceCheck-D5750-EX-Body

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-ES-Body

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

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.03$  S/m;  $\epsilon_r = 52.265$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.57, 4.57, 4.57); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); 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

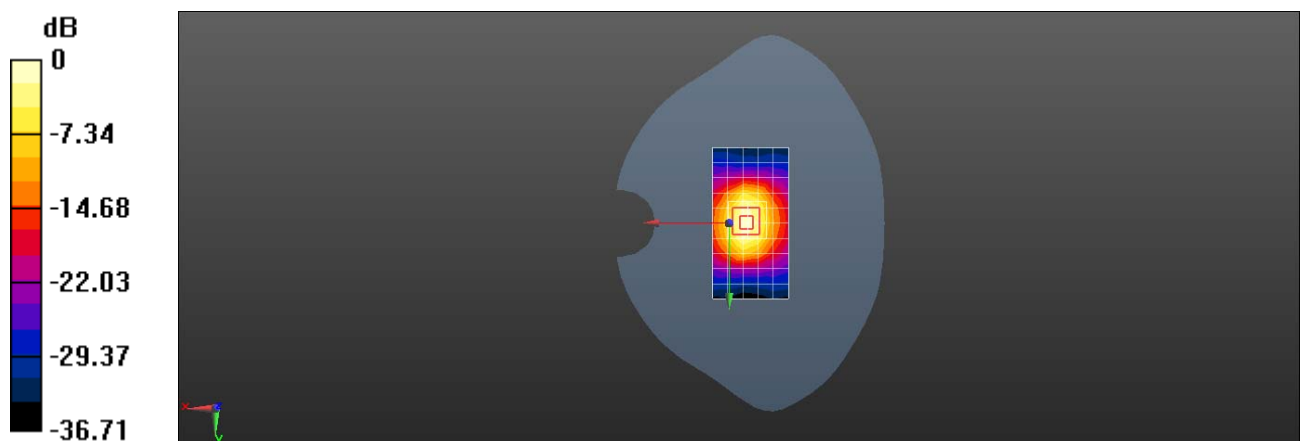
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 88.00 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 25.3 W/kg

**SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.62 W/kg**

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



0 dB = 14.8 W/kg = 11.70 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D5250-EX-Body

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155**

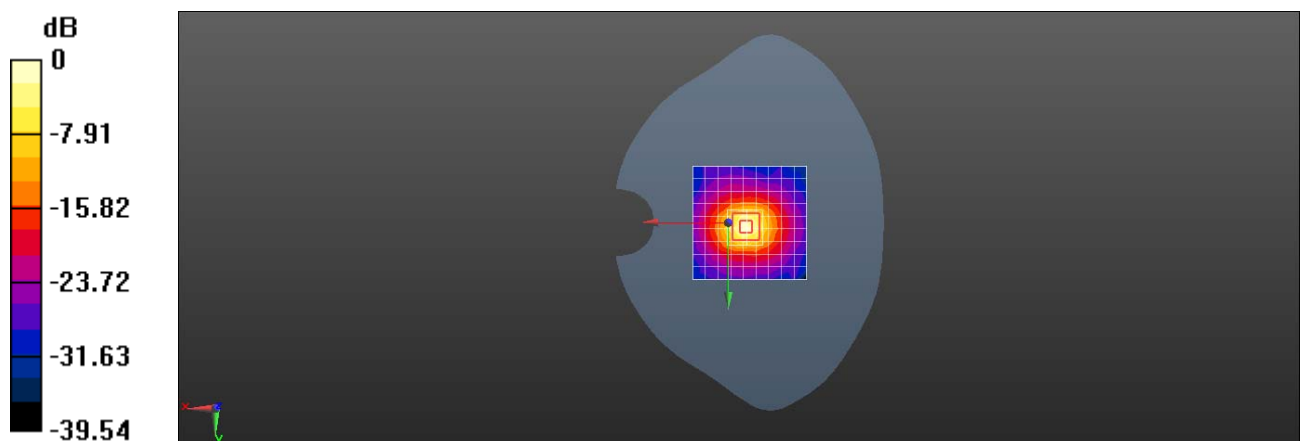
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 5.391$  S/m;  $\epsilon_r = 48.525$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(3.92, 3.92, 3.92); Calibrated: 2016-4-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm,  
 Pin=100mW, f=5250 MHz/Area Scan (10x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 18.2 W/kg

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm,  
 Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm  
 (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 60.58 V/m; Power Drift = -0.17 dB  
 Peak SAR (extrapolated) = 31.2 W/kg  
**SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.16 W/kg**  
 Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D5600-EX-Body

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155**

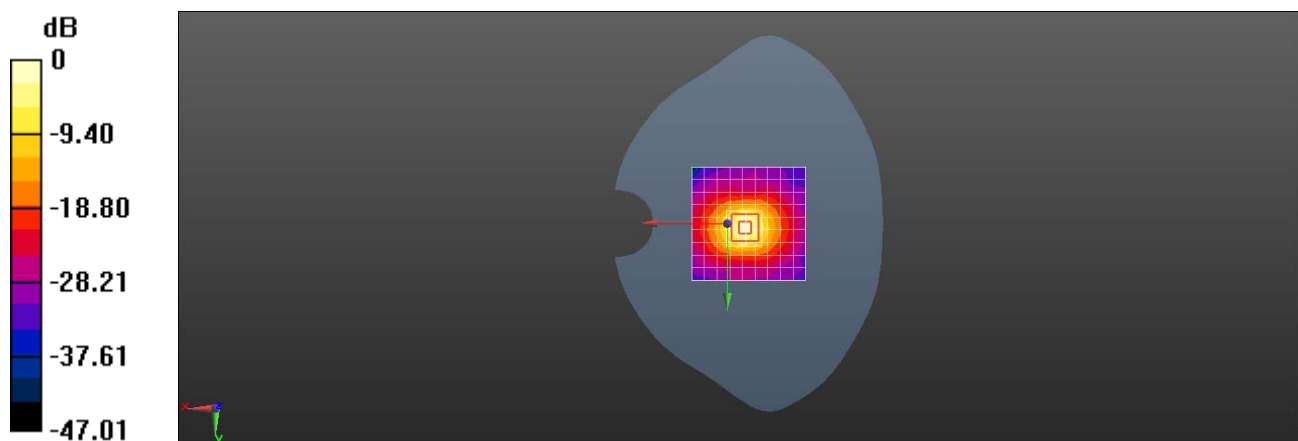
Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.785$  S/m;  $\epsilon_r = 48.096$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(3.48, 3.48, 3.48); Calibrated: 2016-4-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 19.4 W/kg

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 61.51 V/m; Power Drift = -0.12 dB  
 Peak SAR (extrapolated) = 33.6 W/kg  
**SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.26 W/kg**  
 Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D5750-EX-Body

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155**

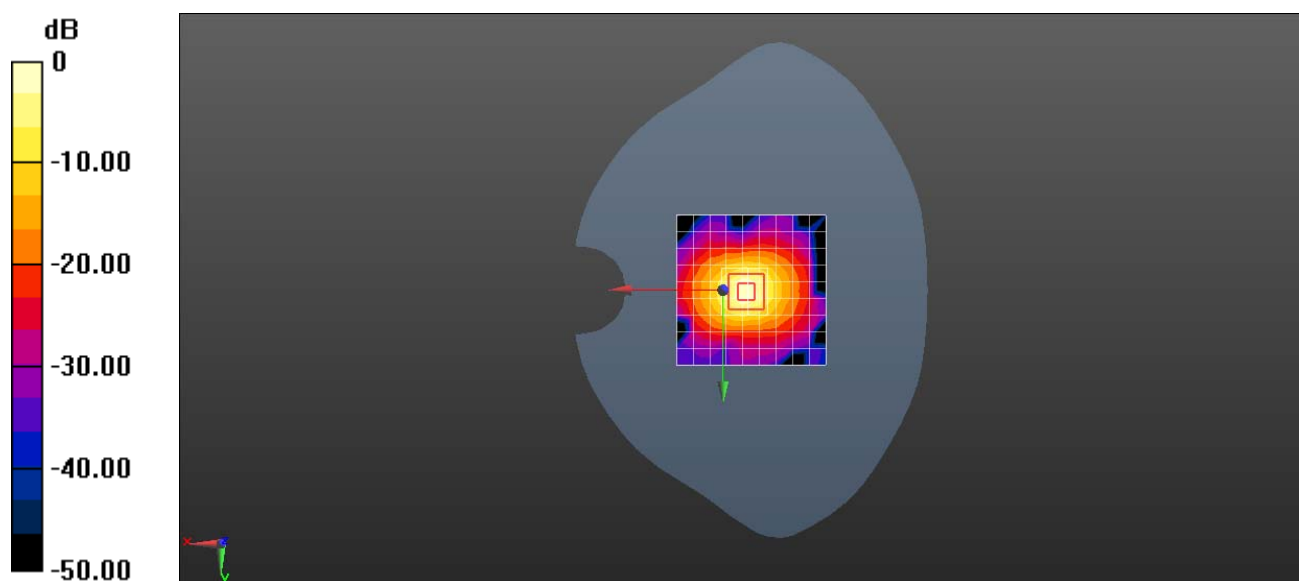
Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5750$  MHz;  $\sigma = 6.066$  S/m;  $\epsilon_r = 47.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(3.6, 3.6, 3.6); Calibrated: 2016-4-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (10x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 14.6 W/kg

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 59.58 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 30.1 W/kg  
**SAR(1 g) = 7.35 W/kg; SAR(10 g) = 2.02 W/kg**  
 Maximum value of SAR (measured) = 18.0 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg