



## Appendix A. System Check Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D835-ES-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;  $\sigma = 0.888$  S/m;  $\epsilon_r = 41.976$ ;  $\rho = 1000$  kg/m<sup>3</sup>

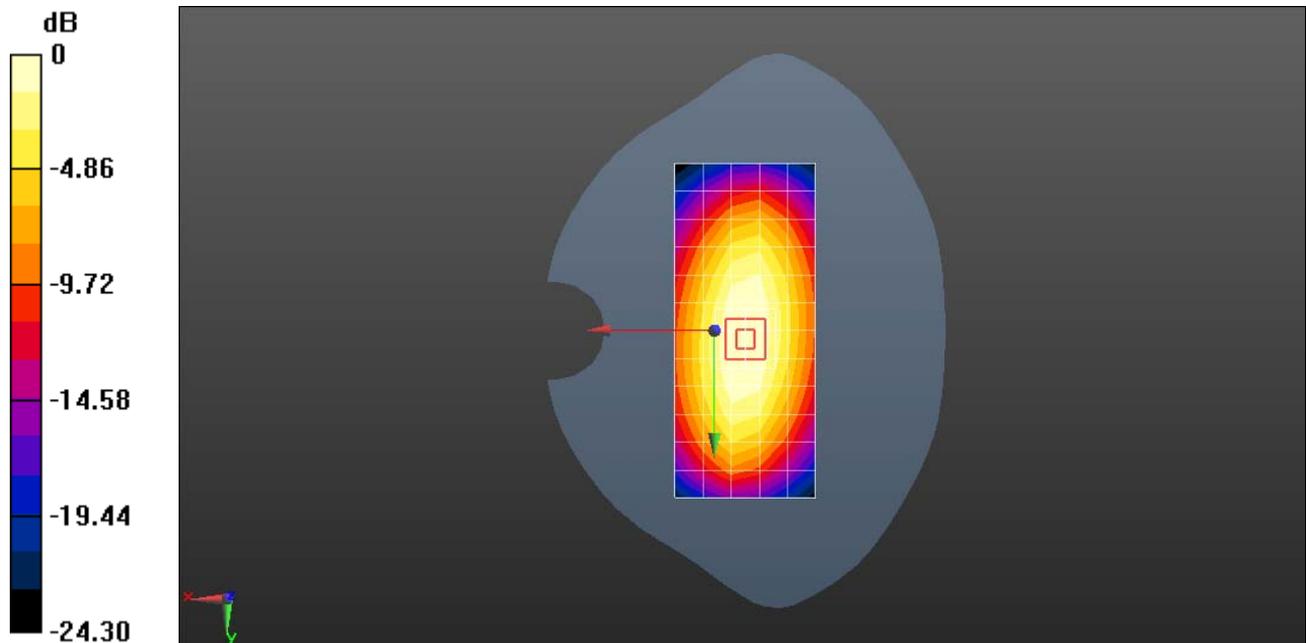
Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: ES3DV3 - SN3168; ConvF(6.32, 6.32, 6.32); Calibrated: 2015-9-28;
- ⌵ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌵ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌵ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌵ DASY52 52.8.8(1222);

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 2.32 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 = 53.63 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 3.49 W/kg  
**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.51 W/kg**  
Maximum value of SAR (measured) = 2.74 W/kg



0 dB = 2.32 W/kg = 3.65 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-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;  $\sigma = 0.989$  S/m;  $\epsilon_r = 54.292$ ;  $\rho = 1000$  kg/m<sup>3</sup>

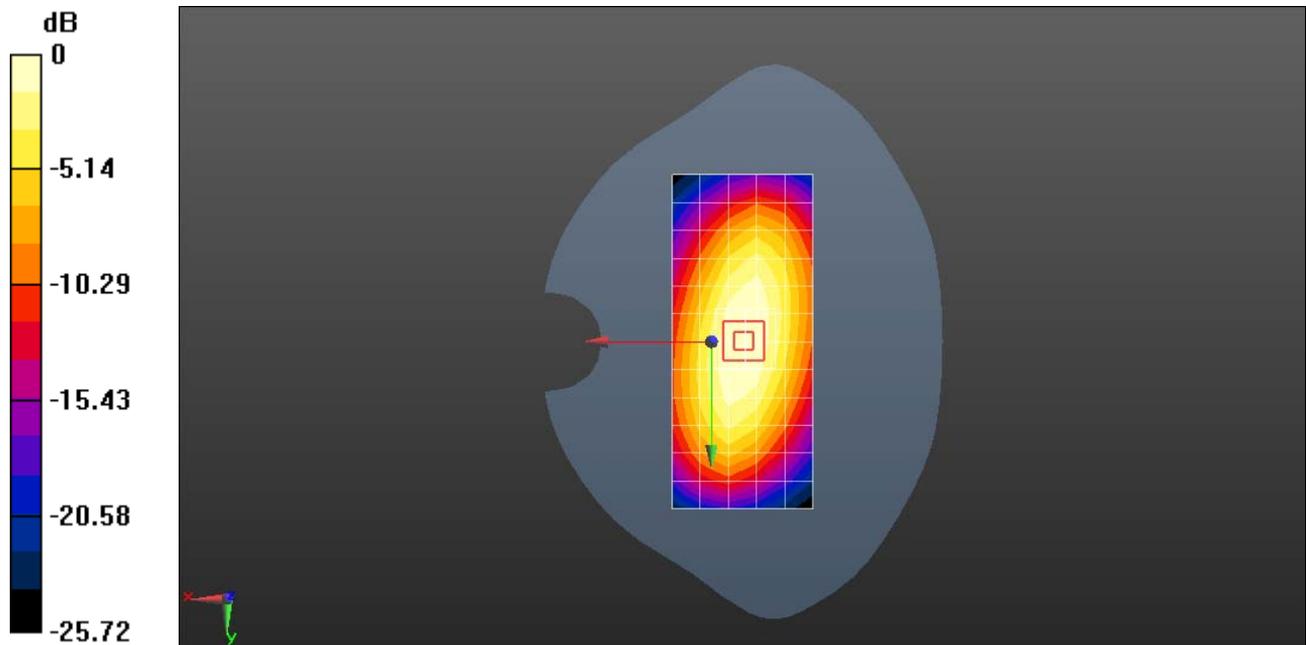
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3736; ConvF(8.76, 8.76, 8.76); Calibrated: 2015-4-30;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=15mm, Pin=250mW/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 2.46 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 = 51.37 V/m; Power Drift = -0.00 dB  
Peak SAR (extrapolated) = 3.56 W/kg  
**SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.57 W/kg**  
Maximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D1900-ES-Head

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

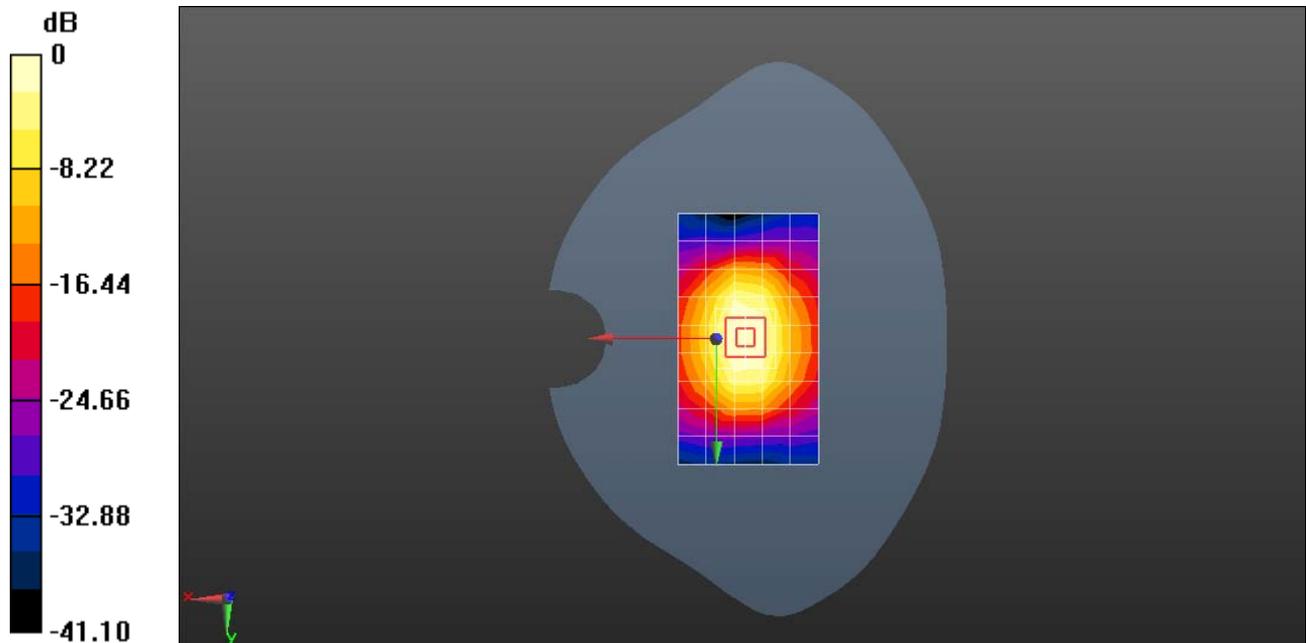
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  S/m;  $\epsilon_r = 39.916$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: ES3DV3 - SN3168; ConvF(5.13, 5.13, 5.13); Calibrated: 2015-9-28;
- ⌵ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌵ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌵ Phantom: SAM2; Type: SAM; Serial: TP:1474
- ⌵ DASY52 52.8.8(1222);

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 9.46 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 = 90.30 V/m; Power Drift = -0.04 dB  
 Peak SAR (extrapolated) = 18.5 W/kg  
**SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.29 W/kg**  
 Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 9.46 W/kg = 9.76 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D1900-ES-Body

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

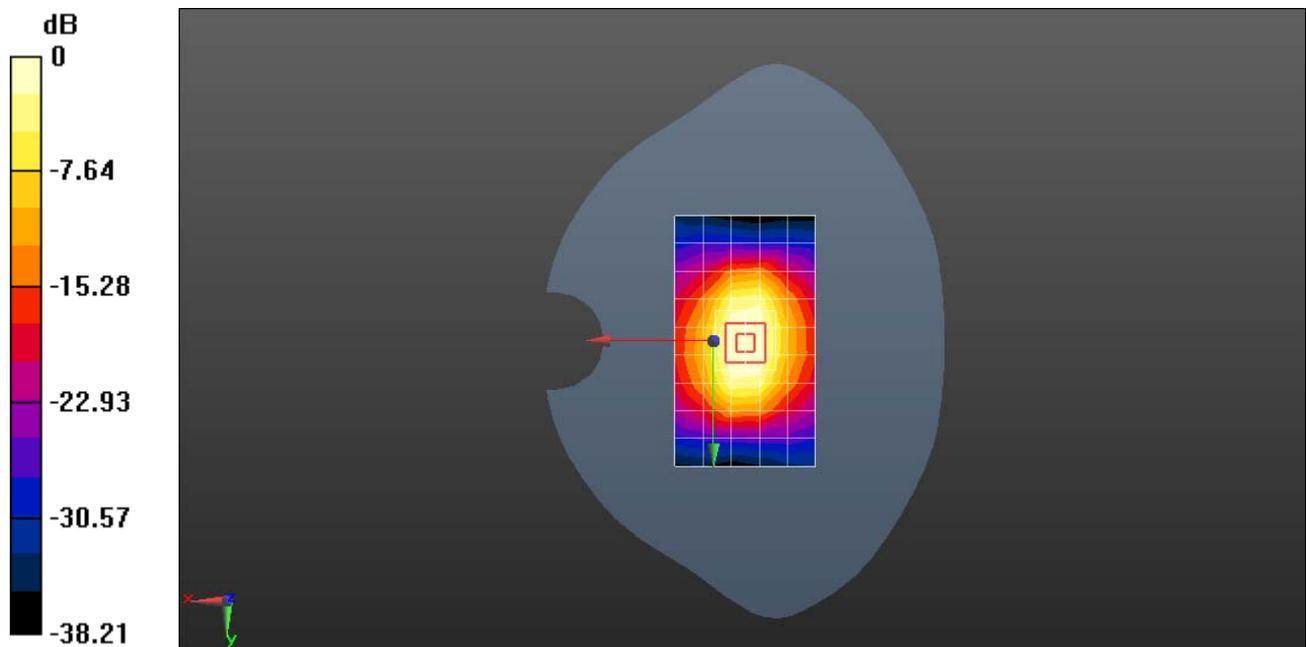
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.53$  S/m;  $\epsilon_r = 51.724$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: ES3DV3 - SN3168; ConvF(4.74, 4.74, 4.74); Calibrated: 2015-9-28;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ⌘ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ⌘ Phantom: SAM1; Type: SAM; Serial: TP-1475
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 8.55 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 = 90.98 V/m; Power Drift = -0.00 dB  
 Peak SAR (extrapolated) = 19.0 W/kg  
**SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.6 W/kg**  
 Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 8.55 W/kg = 9.32 dBW/kg