



**Appendix A. System Check Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D835-EX-Head

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126**

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.911$  S/m;  $\epsilon_r = 41.525$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.7, 9.7, 9.7); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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 (7x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 2.54 W/kg

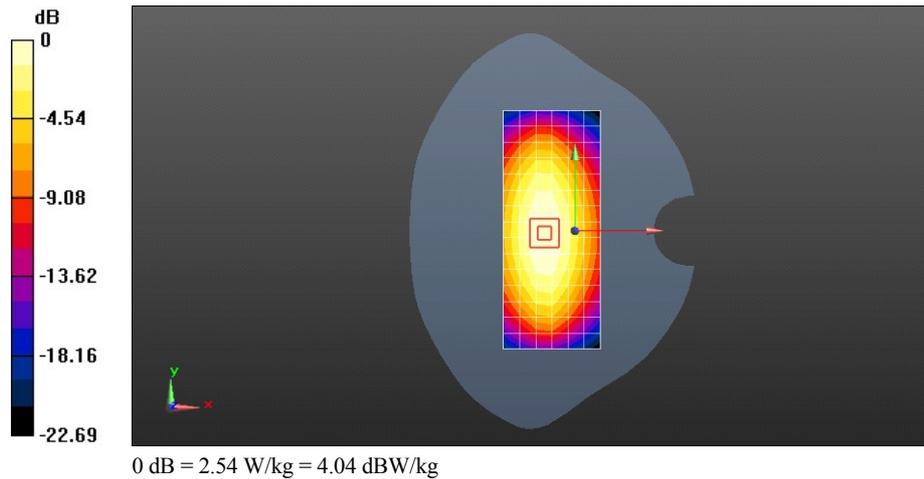
**Configuration/d=15mm,pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 53.434 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.82 W/kg

**SAR(1 g) = 2.55 W/kg; SAR(10 g) = 1.65 W/kg**

Maximum value of SAR (measured) = 2.72 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D835-EX-Body

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d126**

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

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 53.158$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(9.58, 9.58, 9.58); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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 (7x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

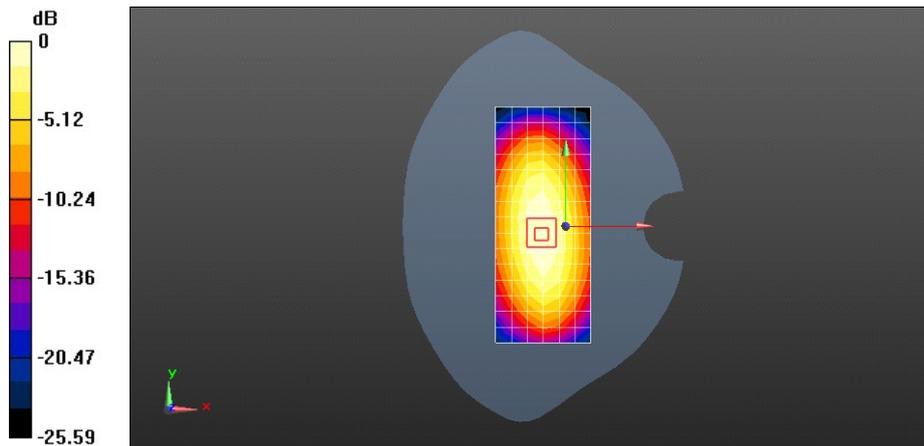
Maximum value of SAR (measured) = 2.59 W/kg

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

Reference Value = 52.872 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.58 W/kg

**SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.58 W/kg**



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D1800-EX-Head

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: D1800V2 - SN:2d184**

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 40.307$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(8.19, 8.19, 8.19); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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 (7x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 11.1 W/kg

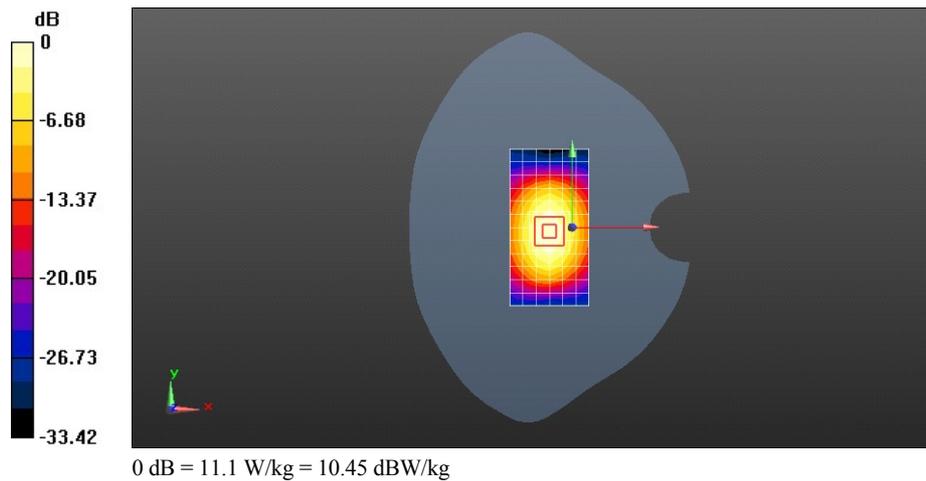
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 88.259 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 20.3 W/kg

**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.09 W/kg**

Maximum value of SAR (measured) = 11.3 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D1800-EX-Body

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: D1800V2 - SN:2d184**

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.539$  S/m;  $\epsilon_r = 53.351$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(8.04, 8.04, 8.04); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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 (7x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

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

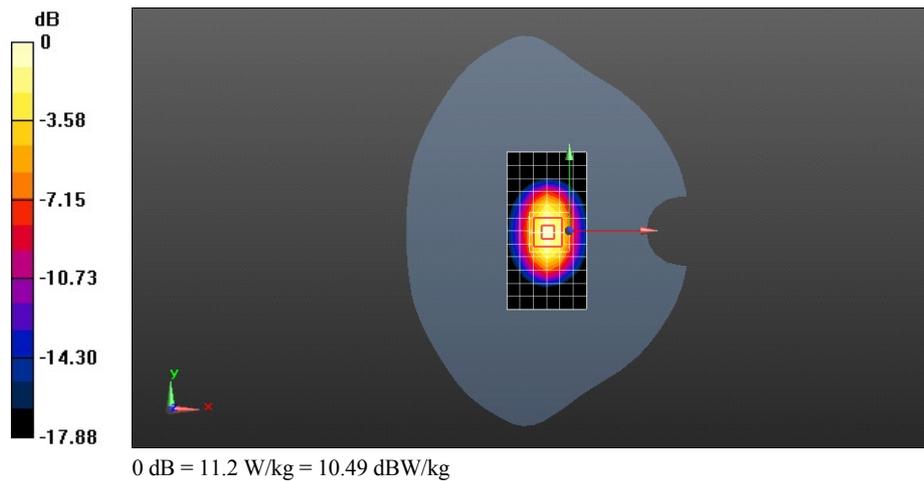
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 84.607 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.08 W/kg**

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



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D1900-EX-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/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.94, 7.94, 7.94); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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 (8x12x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 9.40 W/kg

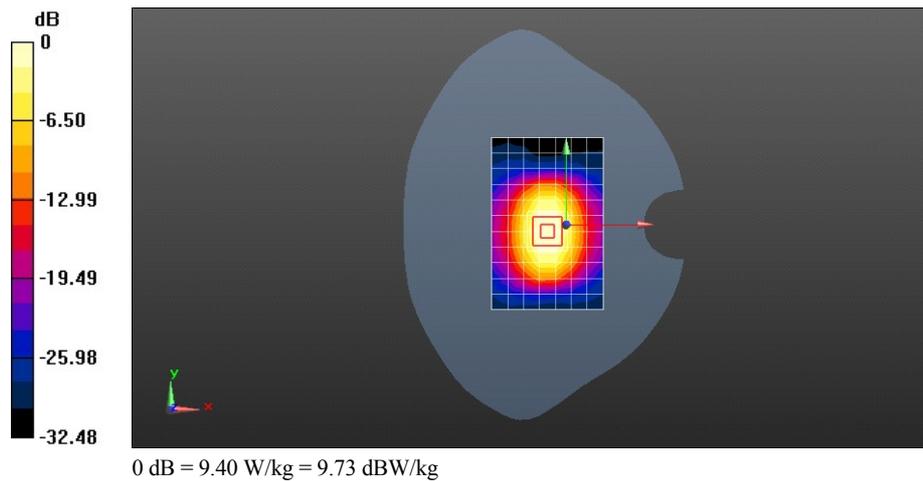
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 84.644 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 19.6 W/kg

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

Maximum value of SAR (measured) = 11.6 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D1900-EX-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;  $\sigma = 1.577$  S/m;  $\epsilon_r = 51.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.52, 7.52, 7.52); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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 (8x12x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 11.0 W/kg

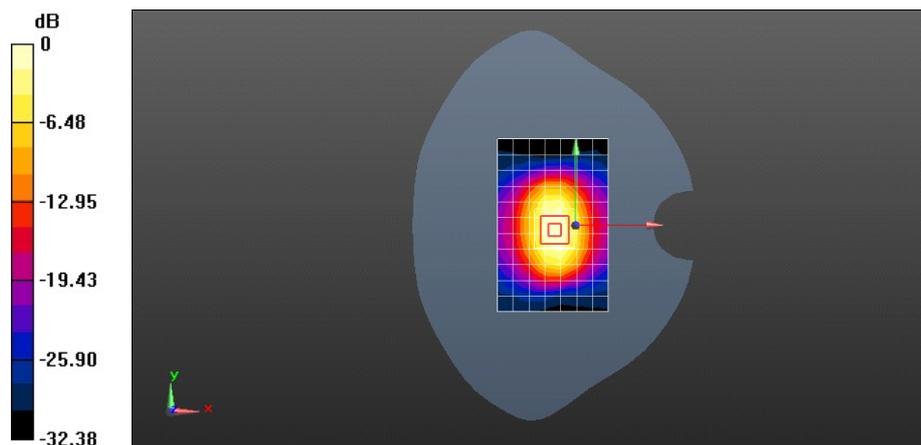
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 88.545 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 21.1 W/kg

**SAR(1 g) = 11.1 W/kg; SAR(10 g) = 5.66 W/kg**

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 11.0 W/kg = 10.42 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D1900-EX-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;  $\sigma = 1.59$  S/m;  $\epsilon_r = 51.289$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.52, 7.52, 7.52); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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) = 12.0 W/kg

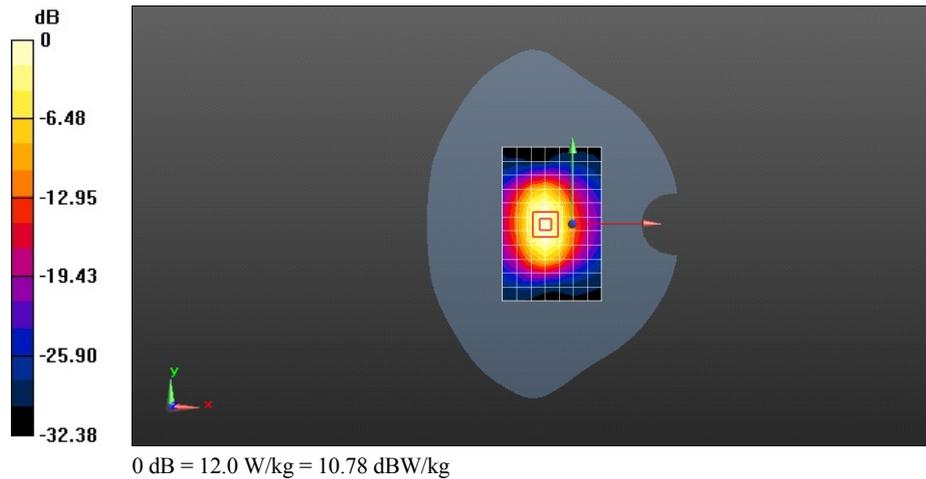
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 78.066 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 21.3 W/kg

**SAR(1 g) = 11.1 W/kg; SAR(10 g) = 5.6 W/kg**

Maximum value of SAR (measured) = 12.5 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D2450-EX-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;  $\epsilon_r = 39.467$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.25, 7.25, 7.25); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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) = 12.5 W/kg

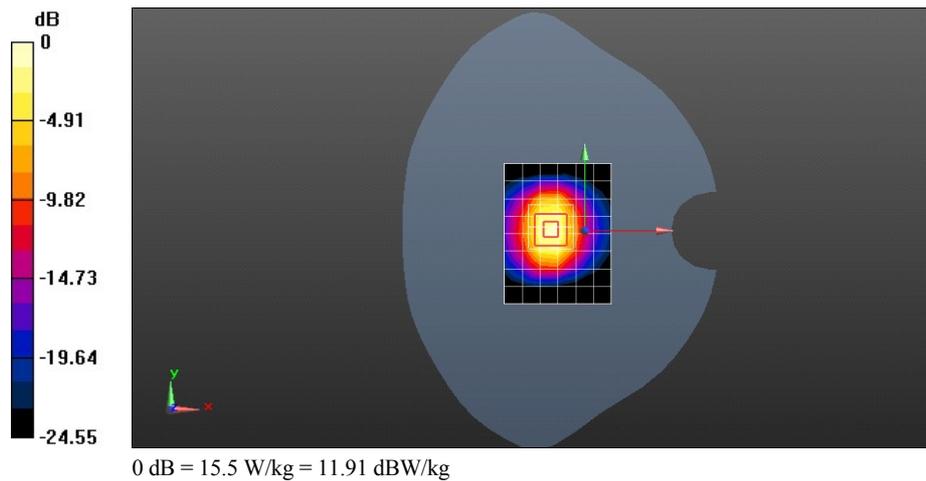
**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 79.885 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 30.1 W/kg

**SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.01 W/kg**

Maximum value of SAR (measured) = 15.5 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### SystemPerformanceCheck-D2450-EX-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;  $\sigma = 2.002$  S/m;  $\epsilon_r = 52.073$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.17, 7.17, 7.17); Calibrated: 2013-1-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2012-11-22
- 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) = 12.2 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 = 74.702 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 30.1 W/kg

**SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.03 W/kg**

Maximum value of SAR (measured) = 15.5 W/kg

