

<b>SONY</b> Sony Mobile Communications (China) Co., Ltd. Test Laboratory	Report No.: TARC-PY7- PM0817-SAR-FCC-04
PY7-PM0817 SAR FCC Test Report	Edition 4      Revision 0

## **APPENDIX B: SYSTEM VALIDATION RESULTS**

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Date/Time: 7/26/2014 10:55:48 AM

Test Laboratory: GTA-Beijing

**HSL750\_System validation\_20140726**

**DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1055**

Communication System: UID 0, CW; Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 42.508$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(6.56, 6.56, 6.56); Calibrated: 12/19/2013;
  - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x201x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Reference Value = 52.63 V/m; Power Drift = -0.07 dB

**Fast SAR: SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.37 W/kg**

Maximum value of SAR (interpolated) = 2.37 W/kg

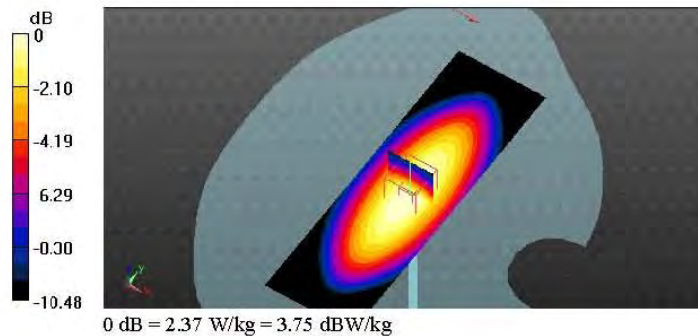
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 52.63 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.06 W/kg

**SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.32 W/kg**

Maximum value of SAR (measured) = 2.37 W/kg



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**GSM835 Head Validation\_20140710**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d061**

Communication System: UID 0, CW; Frequency: 835 MHz; Communication System PAR: 0 dB;  
PMF: 1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.883 \text{ S/m}$ ;  $\epsilon_r = 41.411$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6.39, 6.39, 6.39); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface),  $z = 2.0, 107.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1488; Type: QD000P40CC; Serial: TP:1488
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/835MHz Head\_Validation/Area Scan (61x181x1):** Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.63 W/kg

**Configuration/835MHz Head\_Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement

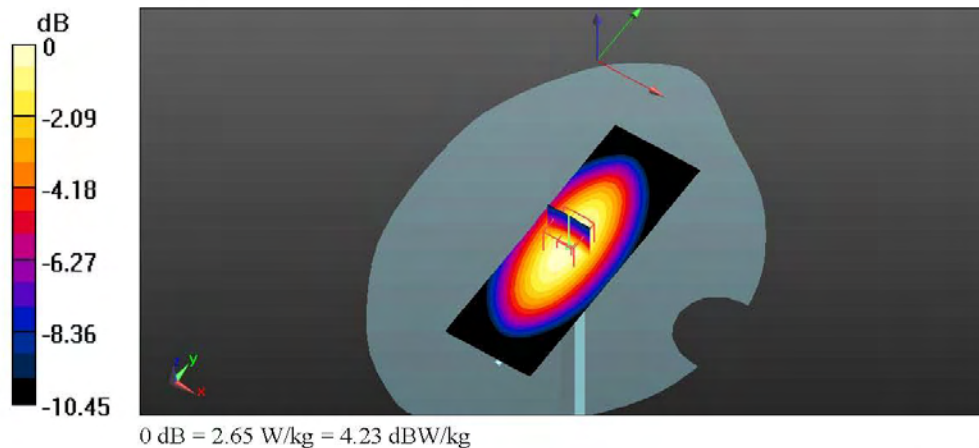
grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.03 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.36 W/kg

**SAR(1 g) = 2.26 W/kg; SAR(10 g) = 1.48 W/kg**

Maximum value of SAR (measured) = 2.65 W/kg



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**GSM835 Head Validation\_20140722**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d061**

Communication System: UID 0, CW; Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.923 \text{ S/m}$ ;  $\epsilon_r = 42.614$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6.39, 6.39, 6.39); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1488; Type: QD000P40CC; Serial: TP:1488
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/835MHz Head Validation/Area Scan (61x181x1):** Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value = 55.46 V/m; Power Drift = 0.00 dB

**Fast SAR: SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.57 W/kg**

Maximum value of SAR (interpolated) = 2.75 W/kg

**Configuration/835MHz Head Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement

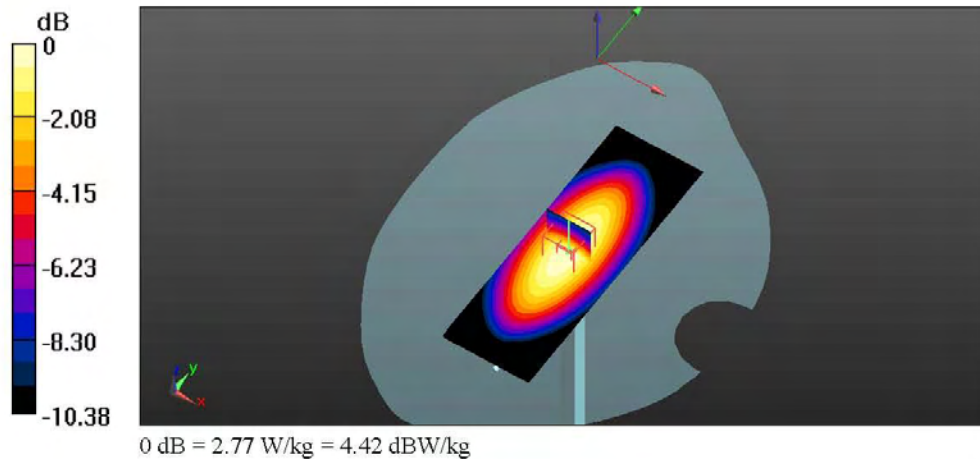
grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.46 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.53 W/kg

**SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.55 W/kg**

Maximum value of SAR (measured) = 2.77 W/kg



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**GSM835 Head Validation\_20140730**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d061**

Communication System: UID 0, CW; Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.904 \text{ S/m}$ ;  $\epsilon_r = 43.123$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(6.33, 6.33, 6.33); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1488; Type: QD000P40CC; Serial: TP:1488
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/835MHz Head\_Validation/Area Scan (61x181x1):** Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.63 W/kg

**Configuration/835MHz Head\_Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement

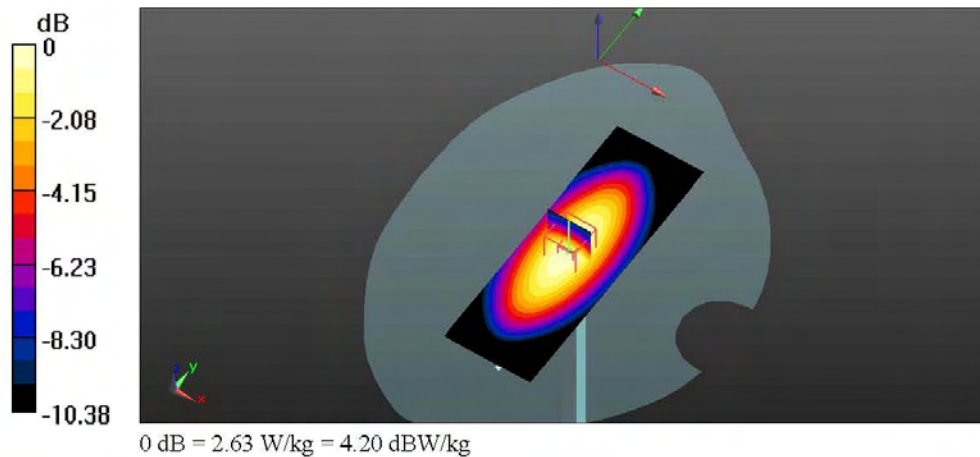
grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 54.62 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.35 W/kg

**SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.47 W/kg**

Maximum value of SAR (measured) = 2.63 W/kg



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**GSM1800 Head Validation\_20140717**

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: SN:2d158**

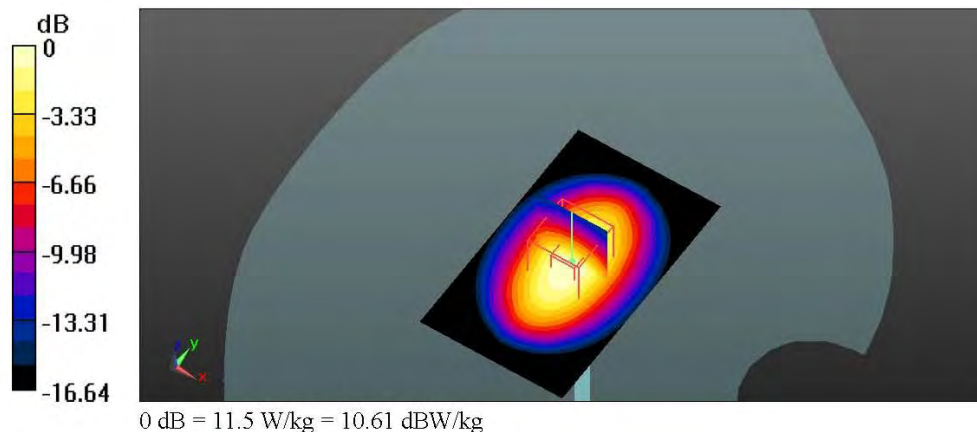
Communication System: UID 10000, CW; Communication System Band: D1800 (1800.0 MHz);  
 Frequency: 1800 MHz; Communication System PAR: 0 dB; PMF: 1  
 Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.408 \text{ S/m}$ ;  $\epsilon_r = 40.056$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(5.4, 5.4, 5.4); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$   
 Maximum value of SAR (interpolated) = 11.4 W/kg

**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 94.29 V/m; Power Drift = -0.01 dB  
 Peak SAR (extrapolated) = 15.9 W/kg  
**SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.83 W/kg**  
 Maximum value of SAR (measured) = 11.5 W/kg



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**GSM1800 Head\_Validation\_20140718**

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: SN:2d158**

Communication System: UID 10000, CW; Communication System Band: D1800 (1800.0 MHz);  
Frequency: 1800 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.417 \text{ S/m}$ ;  $\epsilon_r = 39.691$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(5.4, 5.4, 5.4); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 11.4 W/kg

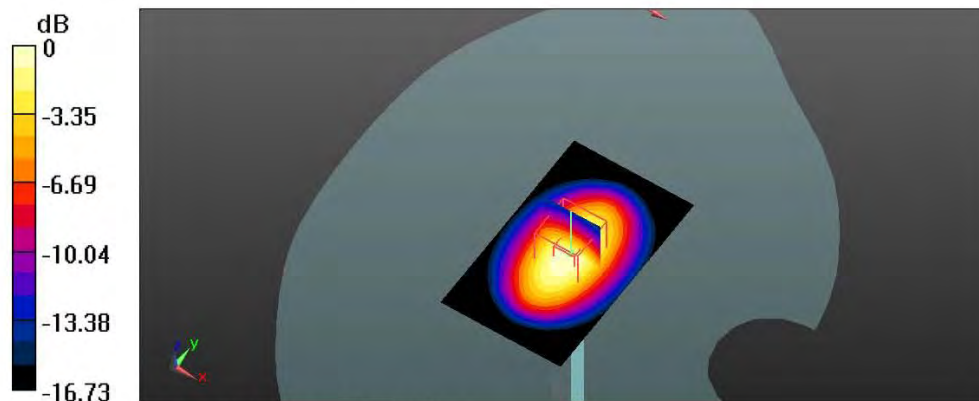
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 93.42 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 9 W/kg; SAR(10 g) = 4.76 W/kg**

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg = 10.57 dBW/kg

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**GSM1800 Head\_Validation\_20140720**

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: SN:2d158**

Communication System: UID 10000, CW; Communication System Band: D1800 (1800.0 MHz);

Frequency: 1800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.433$  S/m;  $\epsilon_r = 39.966$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(5.4, 5.4, 5.4); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 11.5 W/kg

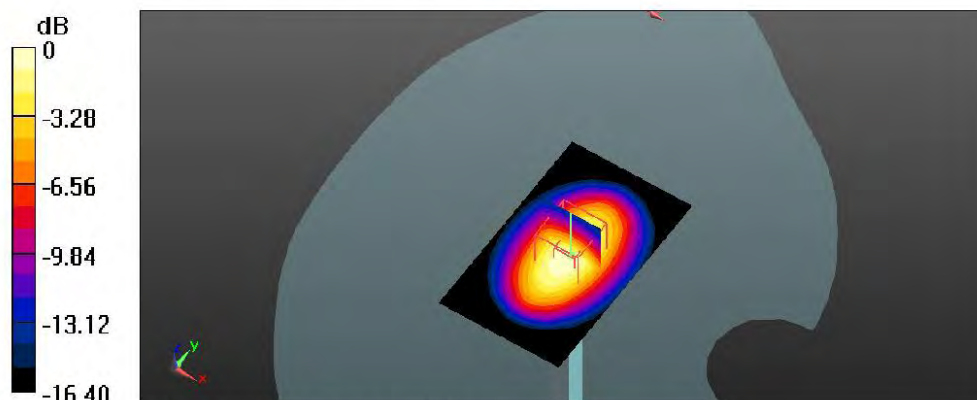
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 92.91 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(1 g) = 9.09 W/kg; SAR(10 g) = 4.84 W/kg**

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg



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**HSL1900\_System check\_20140710**

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d093**

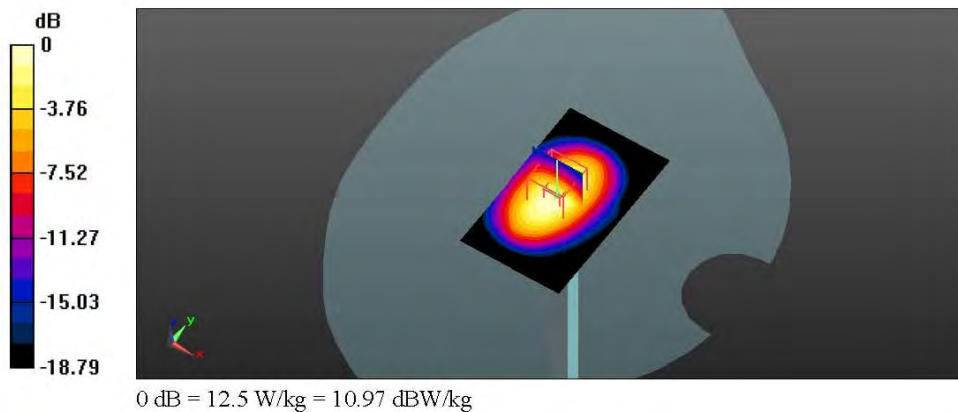
Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz);  
 Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 38.95$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3843; ConvF(7.33, 7.33, 7.33); Calibrated: 2/21/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: SAM with CRP v5.0 #1697; Type: QD000P40CD; Serial: TP1697
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
 Maximum value of SAR (interpolated) = 12.5 W/kg

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 84.34 V/m; Power Drift = 0.09 dB  
 Peak SAR (extrapolated) = 18.4 W/kg  
**SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.02 W/kg**  
 Maximum value of SAR (measured) = 12.5 W/kg



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Test Laboratory: GTA-Beijing

**HSL1900\_System check\_20140715**

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d093**

Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.417$  S/m;  $\epsilon_r = 38.816$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3843; ConvF(7.33, 7.33, 7.33); Calibrated: 2/21/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: SAM with CRP v5.0 #1697; Type: QD000P40CD; Serial: TP1697
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 12.2 W/kg

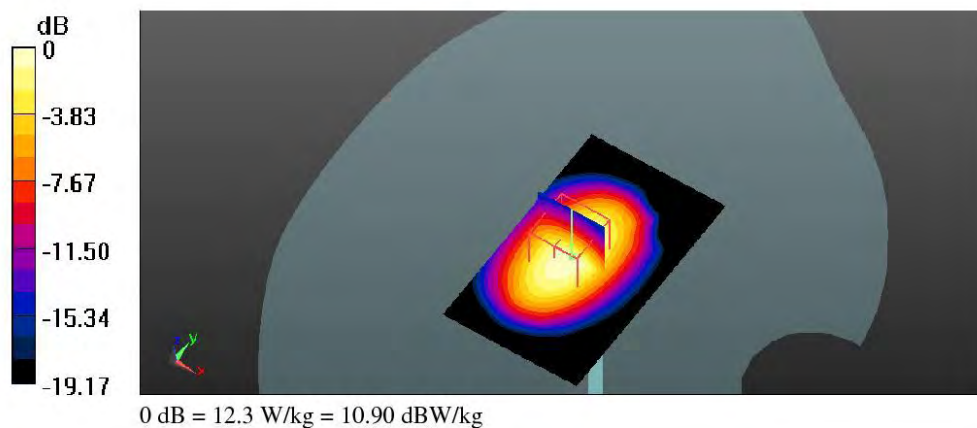
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.37 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 9.6 W/kg; SAR(10 g) = 4.94 W/kg**

Maximum value of SAR (measured) = 12.3 W/kg



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**HSL1900\_System check\_20140717**

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d093**

Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.423$  S/m;  $\epsilon_r = 38.92$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3843; ConvF(7.33, 7.33, 7.33); Calibrated: 2/21/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: SAM with CRP v5.0 #1697; Type: QD000P40CD; Serial: TP1697
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 12.3 W/kg

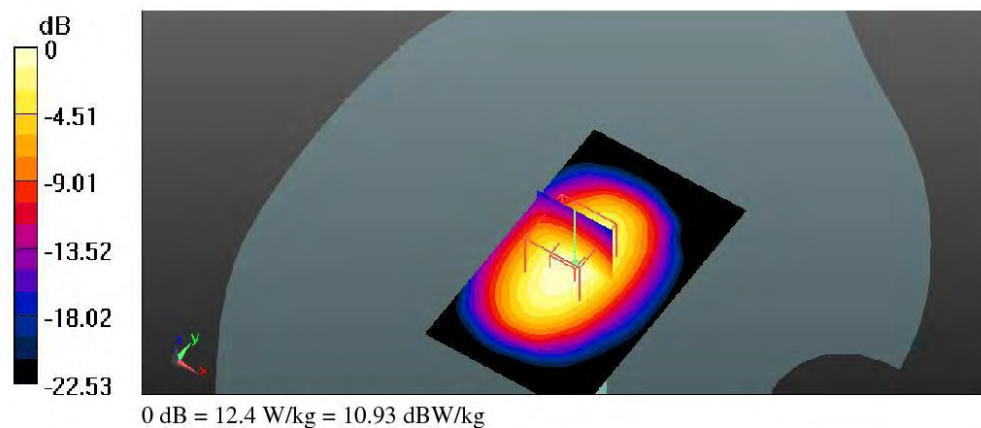
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 84.42 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 9.63 W/kg; SAR(10 g) = 4.9 W/kg**

Maximum value of SAR (measured) = 12.4 W/kg



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Test Laboratory: GTA-Beijing

**HSL1900\_System check\_20140722**

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d093**

Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 39.268$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(4.96, 4.96, 4.96); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: SAM with CRP v5.0 #1697; Type: QD000P40CD; Serial: TP1697
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

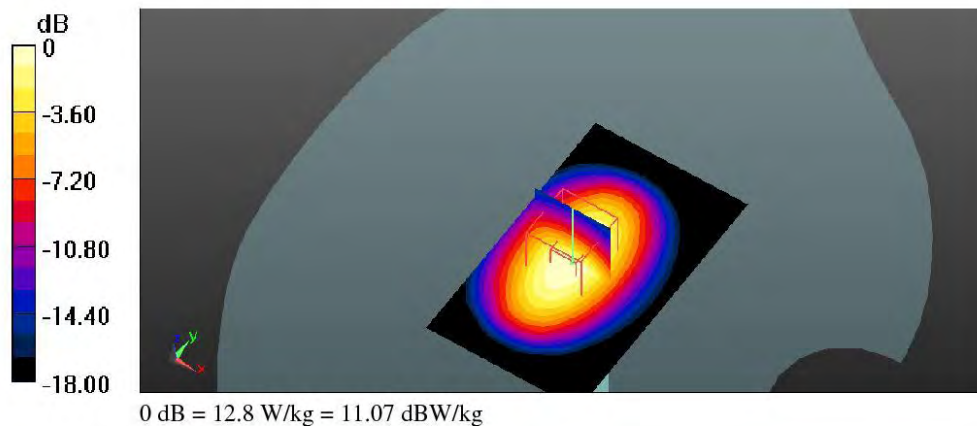
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.68 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 10 W/kg; SAR(10 g) = 5.2 W/kg**

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



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**HSL1900\_System check\_20140731**

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d093**

Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.341$  S/m;  $\epsilon_r = 38.775$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(5.15, 5.15, 5.15); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1326; Calibrated: 2/14/2014
- Phantom: SAM with CRP v5.0 #1697; Type: QD000P40CD; Serial: TP1697
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

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

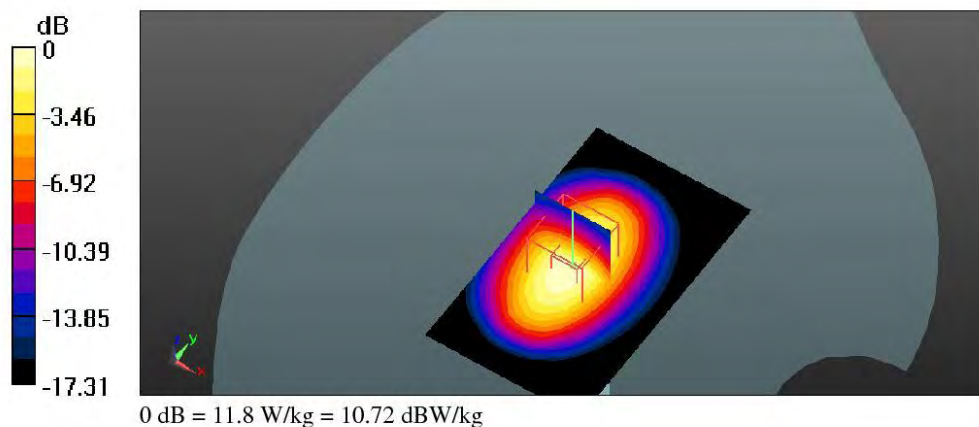
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 85.52 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 9.24 W/kg; SAR(10 g) = 4.82 W/kg**

Maximum value of SAR (measured) = 11.8 W/kg



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Test Laboratory: GTA-Beijing

**HSL2450\_System Validation\_20140728**

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:806**

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.89 \text{ S/m}$ ;  $\epsilon_r = 39.559$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(4.42, 4.42, 4.42); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 17.3 W/kg

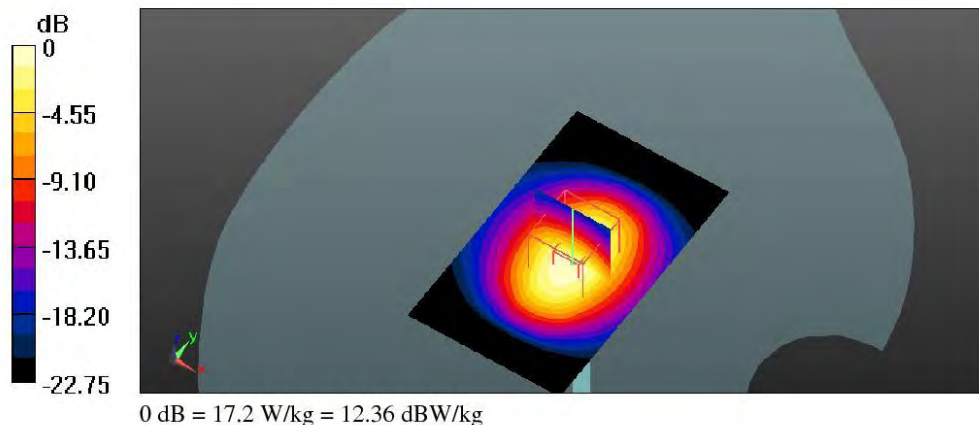
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 95.96 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 27.0 W/kg

**SAR(1 g) = 13 W/kg; SAR(10 g) = 5.99 W/kg**

Maximum value of SAR (measured) = 17.2 W/kg



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Test Laboratory: GTA-Beijing

**HSL 2600\_System Validation\_20140726**

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1025**

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz);  
 Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.058$  S/m;  $\epsilon_r = 38.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(4.26, 4.26, 4.26); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 20.1 W/kg

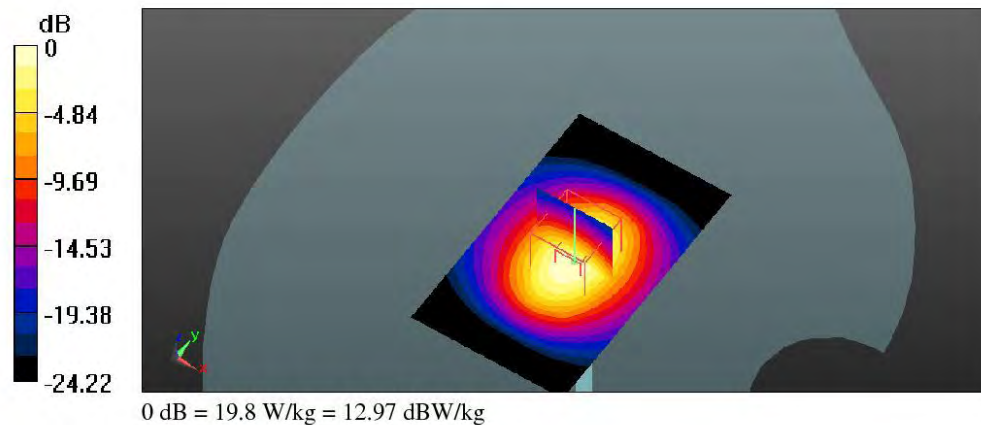
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 101.2 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 32.2 W/kg

**SAR(1 g) = 14.7 W/kg; SAR(10 g) = 6.51 W/kg**

Maximum value of SAR (measured) = 19.8 W/kg



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**Test Laboratory: Product Compliance\_Beijing**

**2600MHz\_Head\_Validation**

**DUT: Dipole 2600 MHz D2600V2**

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz);  
 Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1  
 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.038$  S/m;  $\epsilon_r = 37.305$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

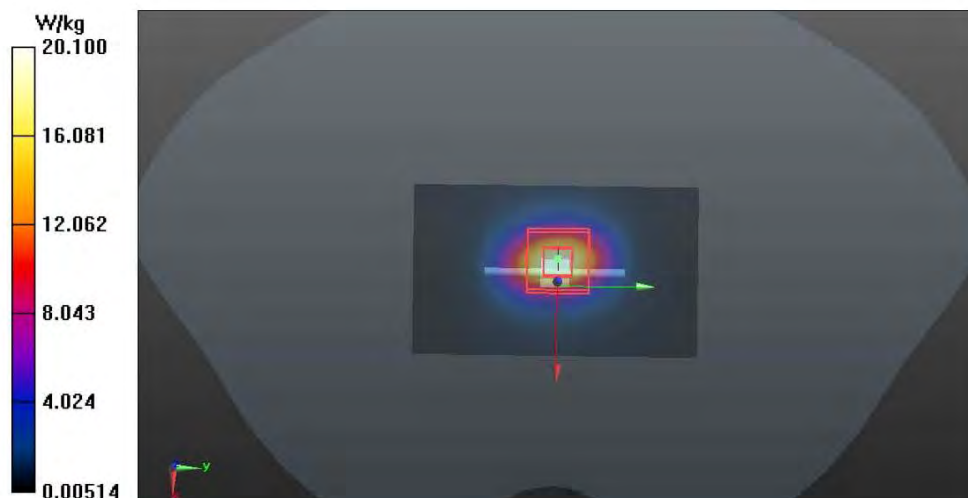
- Probe: EX3DV4 - SN3843; ConvF(6.53, 6.53, 6.53); Calibrated: 3/13/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/23/2015
- Phantom: SAM Right ; Type: QD000P40CD; Serial: TP:xxxx
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x101x1):**

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
 Maximum value of SAR (interpolated) = 20.1 W/kg

**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 93.40 V/m; Power Drift = 0.13 dB  
 Peak SAR (extrapolated) = 33.4 W/kg  
**SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.36 W/kg**  
 Maximum value of SAR (measured) = 19.6 W/kg





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Test Laboratory: GTA-Beijing

**5GHZ\_Head Validation\_20140725**

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1061**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5200 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.833$  S/m;  $\epsilon_r = 35.761$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(4.97, 4.97, 4.97); Calibrated: 12/20/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1326; Calibrated: 2/14/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.2G/Area Scan**

**(51x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 38.9 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.2G/Zoom Scan**

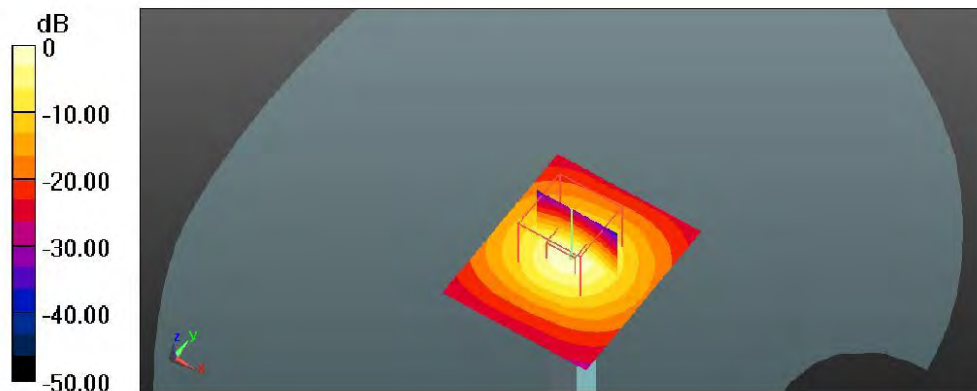
**(7x7x7) (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 101.6 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 77.4 W/kg

**SAR(1 g) = 18.7 W/kg; SAR(10 g) = 5.36 W/kg**

Maximum value of SAR (measured) = 46.0 W/kg



0 dB = 46.0 W/kg = 16.63 dBW/kg

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**5GHZ\_Head Validation\_20140725**

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1061**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5500 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.139$  S/m;  $\epsilon_r = 35.278$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(4.69, 4.69, 4.69); Calibrated: 12/20/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1326; Calibrated: 2/14/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.5G/Area Scan**

**(51x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 40.1 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.5G/Zoom Scan**

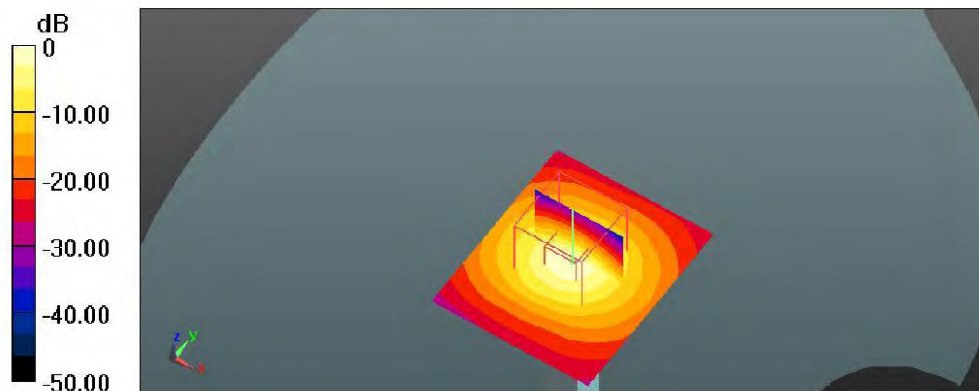
**(7x7x7) (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 99.23 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 84.3 W/kg

**SAR(1 g) = 19.1 W/kg; SAR(10 g) = 5.38 W/kg**

Maximum value of SAR (measured) = 48.4 W/kg



0 dB = 48.4 W/kg = 16.85 dBW/kg

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Test Laboratory: GTA-Beijing

**5GHZ\_Head Validation\_20140725**

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1061**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.486$  S/m;  $\epsilon_r = 34.697$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(4.41, 4.41, 4.41); Calibrated: 12/20/2013;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1326; Calibrated: 2/14/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.8G/Area Scan**

**(51x61x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 39.6 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.8G/Zoom Scan**

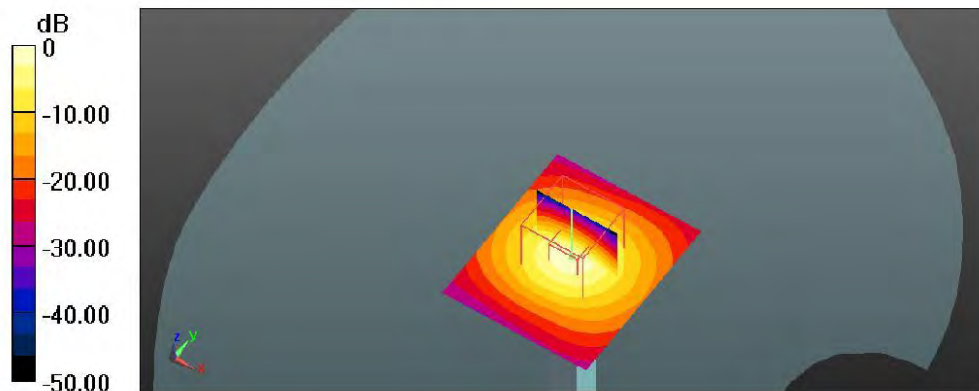
**(7x7x7) (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 97.88 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 86.6 W/kg

**SAR(1 g) = 18.8 W/kg; SAR(10 g) = 5.33 W/kg**

Maximum value of SAR (measured) = 48.6 W/kg



0 dB = 48.6 W/kg = 16.87 dBW/kg

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Test Laboratory: GTA-Beijing

**750M Body\_System Validation\_20140725**

**DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1055**

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz);  
Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.954 \text{ S/m}$ ;  $\epsilon_r = 56.564$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(6.07, 6.07, 6.07); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = -8.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: SAM with CRP v4.0\_1489; Type: QD000P40CC; Serial: TP:1489
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x201x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.55 W/kg

**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 53.09 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.22 W/kg

**SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.45 W/kg**

Maximum value of SAR (measured) = 2.55 W/kg

