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

Date/Time: 7/25/2014 11:44:28 AM

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: DASYS (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
- DASYS2 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

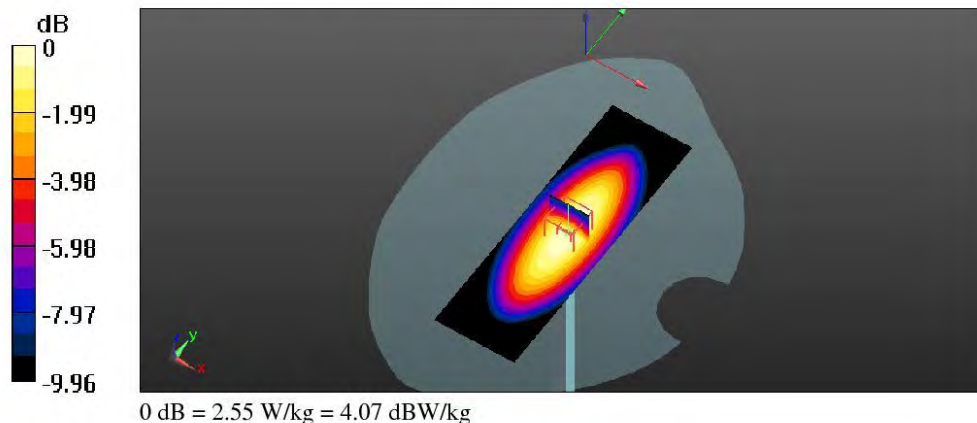
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

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



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Test Laboratory: GTA-Beijing

**GSM835 Body Validation\_20140720**

**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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.984 \text{ S/m}$ ;  $\epsilon_r = 53.545$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6.08, 6.08, 6.08); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: ELI v4.0\_1041; Type: QDOVA001BB; Serial: TP:1041
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

Maximum value of SAR (interpolated) = 2.90 W/kg

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

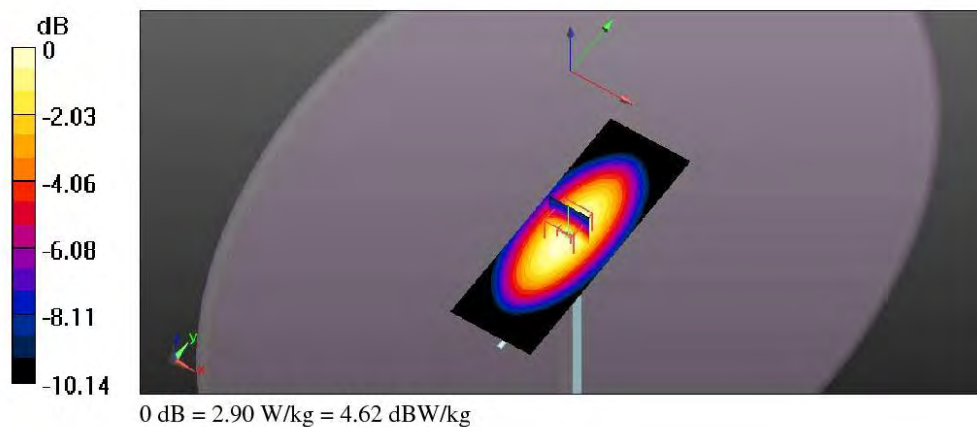
grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.84 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.66 W/kg

**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.63 W/kg**

Maximum value of SAR (measured) = 2.90 W/kg



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Test Laboratory: GTA-Beijing

**GSM835 Body Validation\_20140723**

**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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.995 \text{ S/m}$ ;  $\epsilon_r = 53.85$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(6.08, 6.08, 6.08); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn853; Calibrated: 12/16/2013
- Phantom: ELI v4.0\_1041; Type: QDOVA001BB; Serial: TP:1041
- 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) = 2.88 W/kg

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

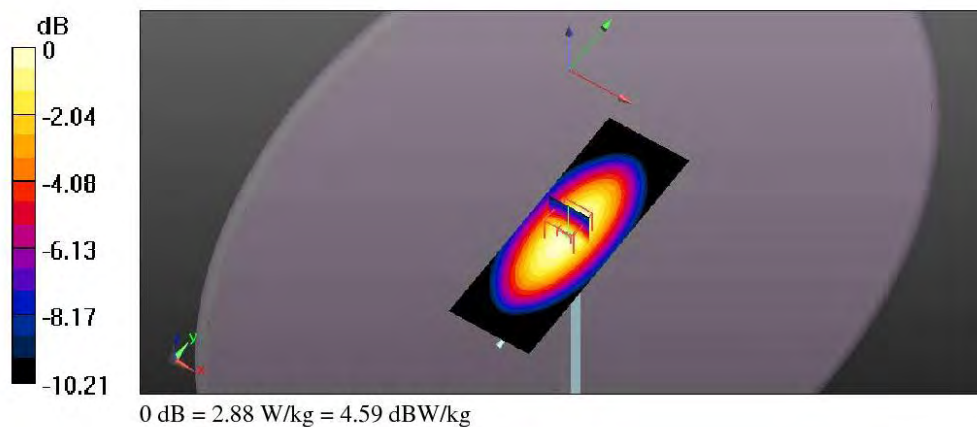
grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.38 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.65 W/kg

**SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.62 W/kg**

Maximum value of SAR (measured) = 2.88 W/kg



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Test Laboratory: GTA-Beijing

**GSM1800 Body\_Validation\_20140721**

**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;  $\sigma = 1.497$  S/m;  $\epsilon_r = 54.578$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.91, 4.91, 4.91); 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) = 11.6 W/kg

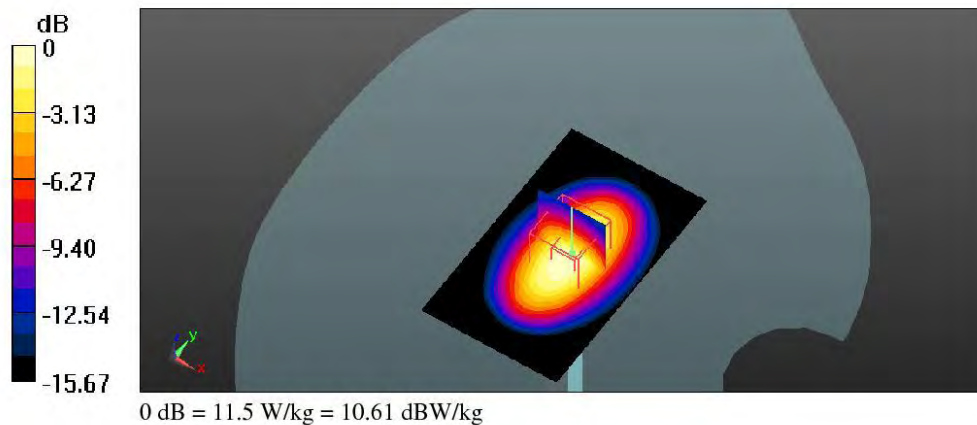
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm


Reference Value = 89.84 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 15.6 W/kg

**SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.94 W/kg**

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



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Test Laboratory: GTA-Beijing

**GSM1800 Body\_Validation\_20140724**

**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:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.494 \text{ S/m}$ ;  $\epsilon_r = 54.513$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3170; ConvF(4.91, 4.91, 4.91); 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:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

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

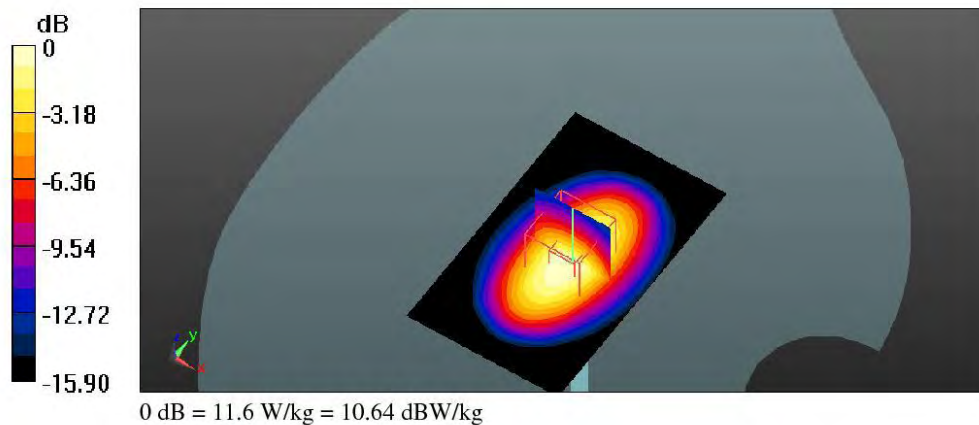
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 89.86 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 9.21 W/kg; SAR(10 g) = 4.96 W/kg**

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



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Test Laboratory: GTA-Beijing

**MSL1900\_System check\_20140711**

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

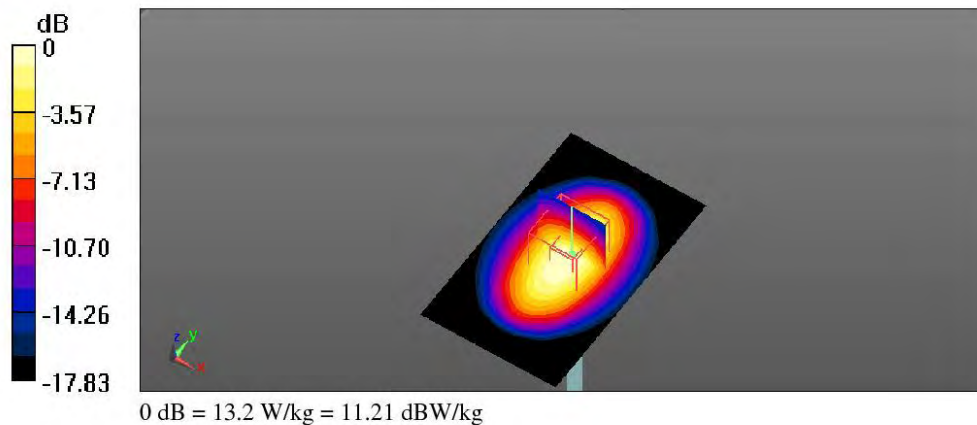
Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz);  
 Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
 Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.493 \text{ S/m}$ ;  $\epsilon_r = 51.078$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3843; ConvF(7.31, 7.31, 7.31); Calibrated: 2/21/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- 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:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$   
 Maximum value of SAR (interpolated) = 13.4 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:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 89.48 V/m; Power Drift = -0.01 dB  
 Peak SAR (extrapolated) = 16.7 W/kg  
**SAR(1 g) = 9.32 W/kg; SAR(10 g) = 4.87 W/kg**  
 Maximum value of SAR (measured) = 13.2 W/kg



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Test Laboratory: GTA-Beijing

**MSL1900\_System check\_20140718**

**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;  $\sigma = 1.525$  S/m;  $\epsilon_r = 50.933$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3843; ConvF(7.31, 7.31, 7.31); Calibrated: 2/21/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- 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) = 13.6 W/kg

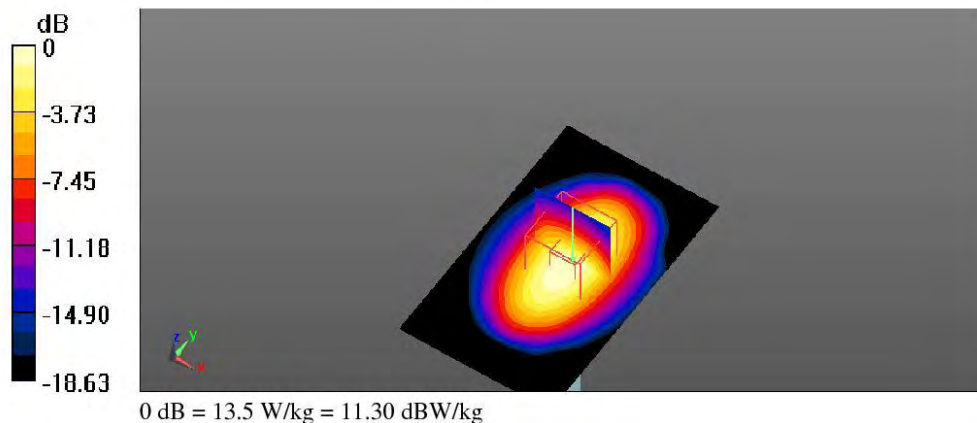
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.83 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 16.9 W/kg

**SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.93 W/kg**

Maximum value of SAR (measured) = 13.5 W/kg



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**MSL1900\_System check\_20140721**

**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;  $\sigma = 1.491$  S/m;  $\epsilon_r = 51.249$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(4.77, 4.77, 4.77); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- 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) = 12.3 W/kg

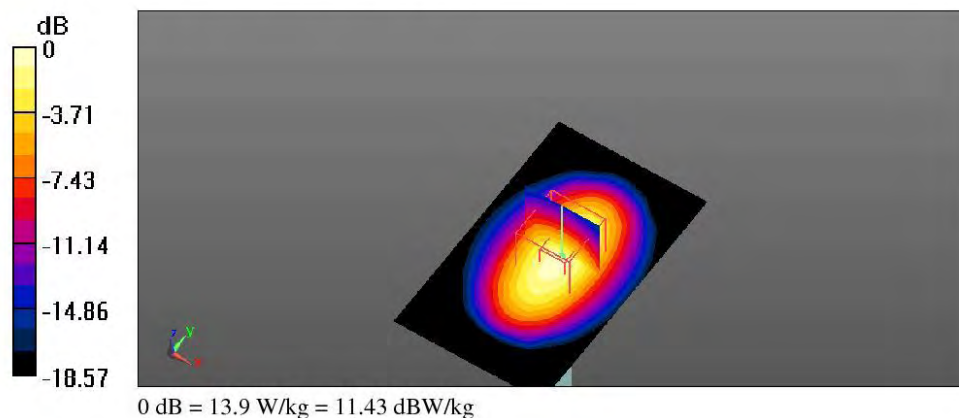
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.80 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.72 W/kg; SAR(10 g) = 5.05 W/kg**

Maximum value of SAR (measured) = 13.9 W/kg





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**MSL1900\_System check\_20140723**

**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;  $\sigma = 1.549$  S/m;  $\epsilon_r = 51.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(4.77, 4.77, 4.77); Calibrated: 12/19/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn854; Calibrated: 12/16/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- 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) = 13.0 W/kg

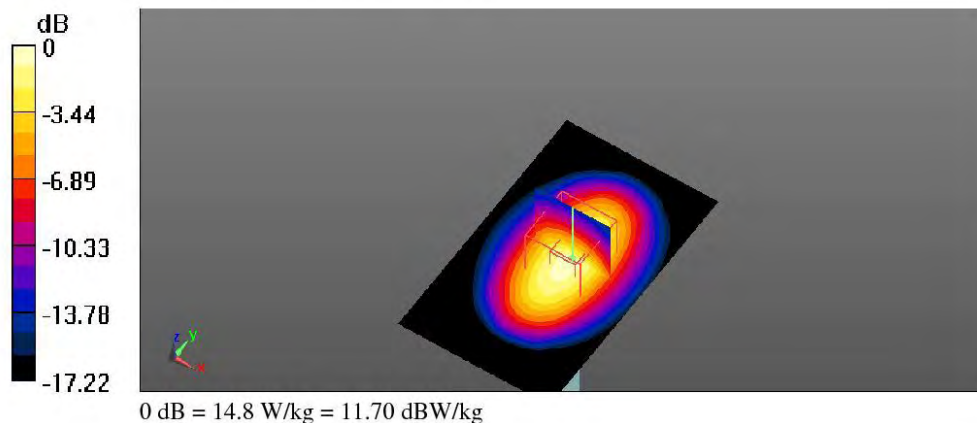
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.51 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.9 W/kg

**SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.44 W/kg**

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



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Test Laboratory: GTA-Beijing

**MSL2600\_System check\_20140729**

**DUT: Dipole D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1012**

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;  $\sigma = 2.177$  S/m;  $\epsilon_r = 50.376$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3843; ConvF(6.27, 6.27, 6.27); Calibrated: 2/21/2014;
- Sensor-Surface: 2mm (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)/Area Scan**

**(81x71x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 21.4 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7)**

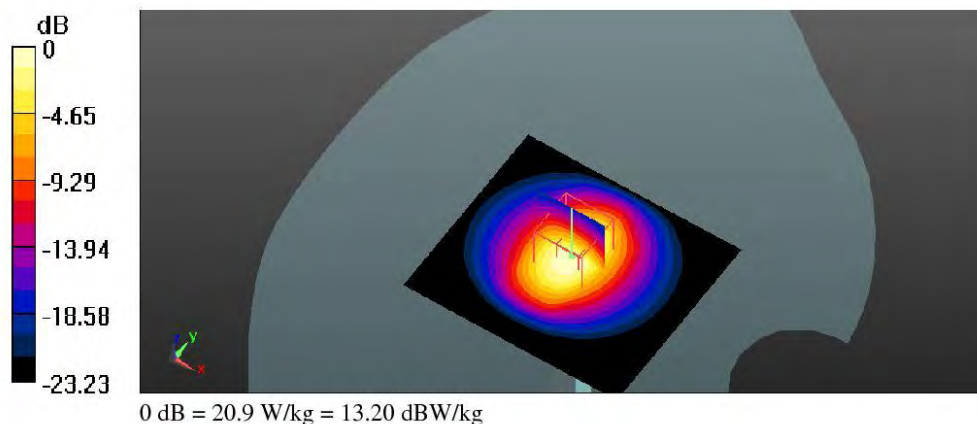
**(7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 89.95 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.0 W/kg

**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6 W/kg**

Maximum value of SAR (measured) = 20.9 W/kg



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**Test Laboratory: Product Compliance\_Beijing**

**2600MHz\_Body\_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;  $\sigma = 2.237$  S/m;  $\epsilon_r = 50.418$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section

DASY Configuration:

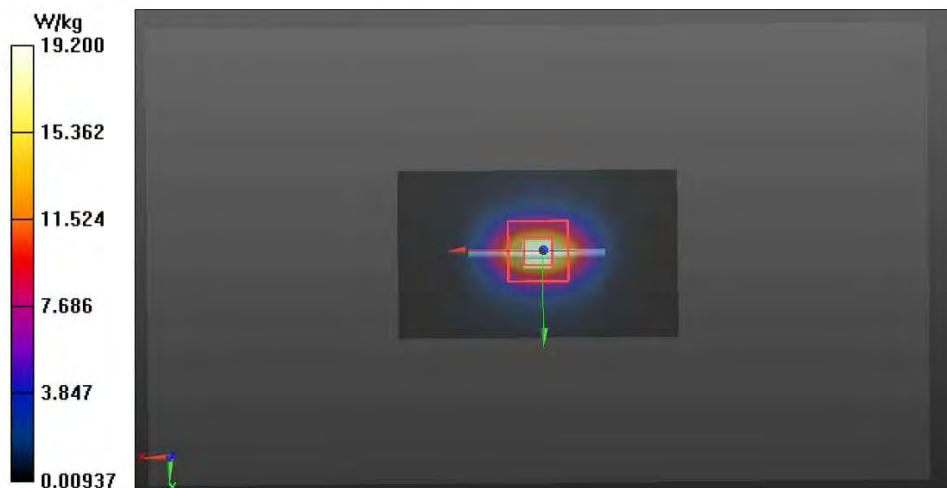
- Probe: EX3DV4 - SN3843; ConvF(6.23, 6.23, 6.23); Calibrated: 3/13/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/23/2015
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: xxxx
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 19.2 W/kg

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

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 91.66 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 32.6 W/kg  
**SAR(1 g) = 15.1 W/kg; SAR(10 g) = 6.66 W/kg**  
Maximum value of SAR (measured) = 20.1 W/kg



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Test Laboratory: GTA-Beijing

**5GHZ\_Body Validation\_20140728\_1**

**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;  $\sigma = 5.369$  S/m;  $\epsilon_r = 50.106$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(4.1, 4.1, 4.1); Calibrated: 12/20/2013;
- 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) = 42.9 W/kg

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

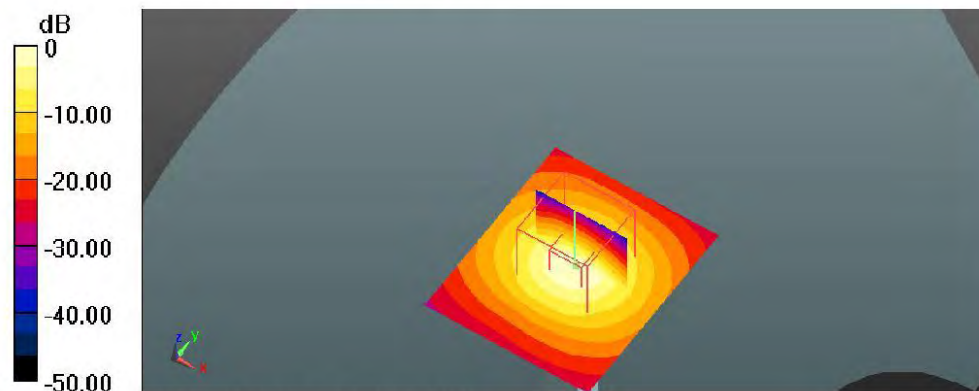
**(7x7x7) (8x8x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 96.97 V/m; Power Drift = -0.01 dB


Peak SAR (extrapolated) = 68.1 W/kg

**SAR(1 g) = 16.7 W/kg; SAR(10 g) = 4.7 W/kg**

Maximum value of SAR (measured) = 41.0 W/kg



0 dB = 41.0 W/kg = 16.13 dBW/kg

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Test Laboratory: GTA-Beijing

**5GHZ\_ Body Validation\_20140728\_1**

**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;  $\sigma = 5.816$  S/m;  $\epsilon_r = 49.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(3.68, 3.68, 3.68); Calibrated: 12/20/2013;
- 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)\_5.5G /Area Scan**

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

Maximum value of SAR (interpolated) = 46.6 W/kg

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

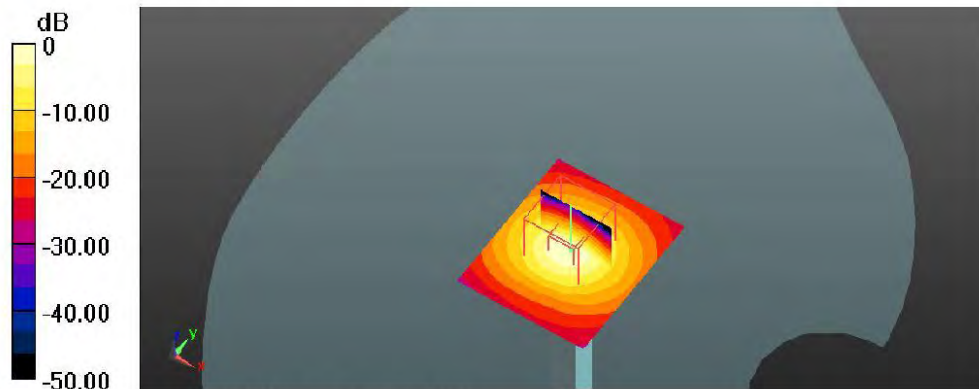
**(7x7x7) (8x8x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 97.16 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 77.2 W/kg

**SAR(1 g) = 18.4 W/kg; SAR(10 g) = 5.09 W/kg**

Maximum value of SAR (measured) = 46.1 W/kg



0 dB = 46.1 W/kg = 16.64 dBW/kg

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Test Laboratory: GTA-Beijing

**5GHZ\_ Body Validation\_20140728\_1**

**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;  $\sigma = 6.226$  S/m;  $\epsilon_r = 48.607$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(3.82, 3.82, 3.82); Calibrated: 12/20/2013;
- Sensor-Surface: 1.4mm (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 2/Area Scan**

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

Maximum value of SAR (interpolated) = 44.2 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)\_5.8G 2/Zoom Scan**

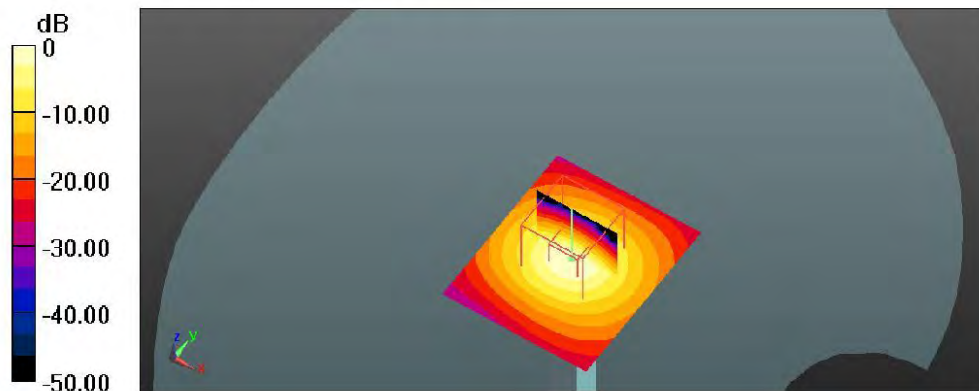
**(7x7x7) (8x8x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 94.80 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 78.2 W/kg

**SAR(1 g) = 17 W/kg; SAR(10 g) = 4.74 W/kg**

Maximum value of SAR (measured) = 43.7 W/kg



0 dB = 43.7 W/kg = 16.40 dBW/kg

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Test Laboratory: GTA-Beijing

**MSL835 Validation**

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

Communication System: UID 0, CW; Communication System Band:D835(835MHz); Frequency: 835 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.98 \text{ S/m}$ ;  $\epsilon_r = 52.923$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(8.97, 8.97, 8.97); Calibrated: 12/12/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn853; Calibrated: 12/12/2014
- Phantom: ELI v4.0\_1041; Type: QDOVA001BB; Serial: TP:1041
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/835MHz Body\_Validation/Area Scan (91x181x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 2.79 W/kg

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

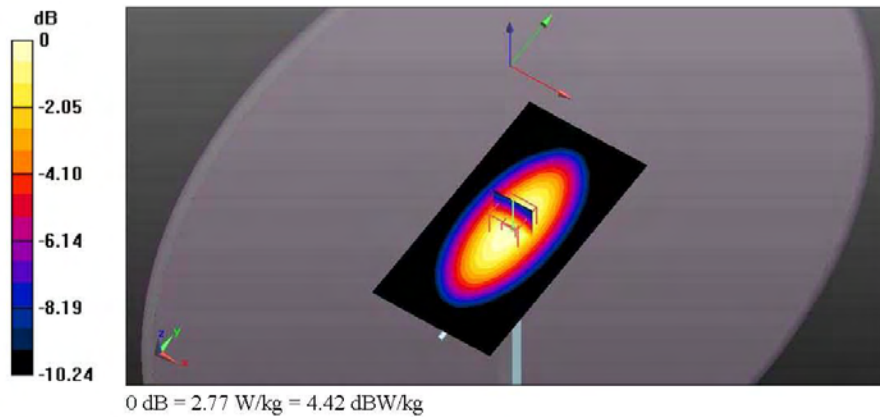
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 53.15 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.56 W/kg

**SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.56 W/kg**

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



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Test Laboratory: GTA-Beijing

**HSL835 Head Validation**

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

Communication System: UID 0, CW; Communication System Band:D835(835MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.864 \text{ S/m}$ ;  $\epsilon_r = 41.239$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3642; ConvF(9.29, 9.29, 9.29); Calibrated: 12/12/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn853; Calibrated: 12/12/2014
- 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) = 2.65 W/kg

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

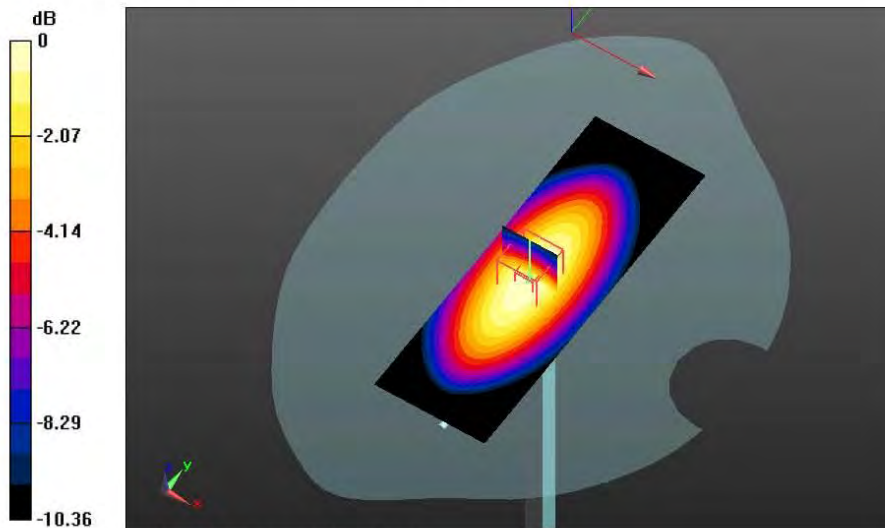
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.05 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.42 W/kg

**SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.49 W/kg**

Maximum value of SAR (measured) = 2.67 W/kg





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Test Laboratory: GTA-Beijing

**1900MHz body Validation**

**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;  $\sigma = 1.559$  S/m;  $\epsilon_r = 51.606$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3295; ConvF(4.65, 4.65, 4.65); Calibrated: 3/14/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/8/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- 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) = 15.7 W/kg

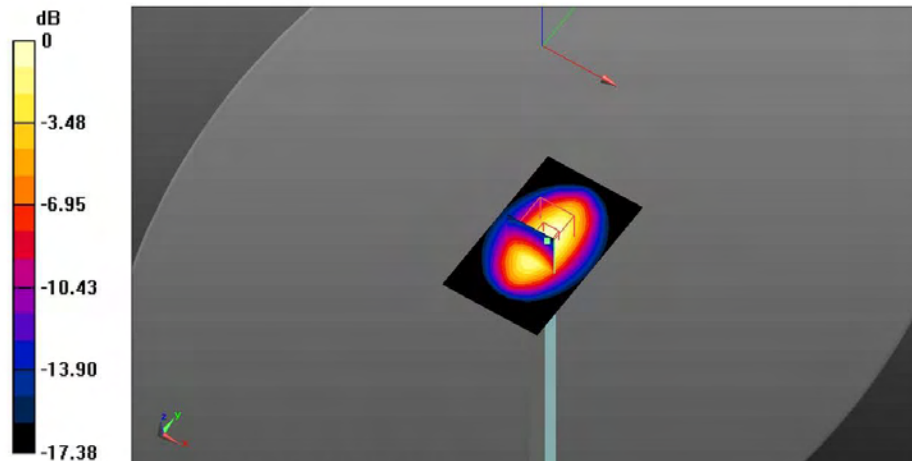
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 95.53 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.59 W/kg

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



0 dB = 15.5 W/kg = 11.90 dBW/kg

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**1900MHz head validation**

**DUT: Dipole 1900 MHz D1900V2; 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;  $\sigma = 1.412$  S/m;  $\epsilon_r = 38.192$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3295; ConvF(5.11, 5.11, 5.11); Calibrated: 3/14/2014;
  - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/8/2014
- Phantom: SAM with CRP v5.0 #1697; Type: QD000P40CD; Serial: TP1697
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**GSM1900\_Head\_System validation/Validation/Area Scan (41x121x1):** Interpolated grid:

$dx = 1.500$  mm,  $dy = 1.500$  mm

Maximum value of SAR (interpolated) = 13.0 W/kg

**GSM1900\_Head\_System validation/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement

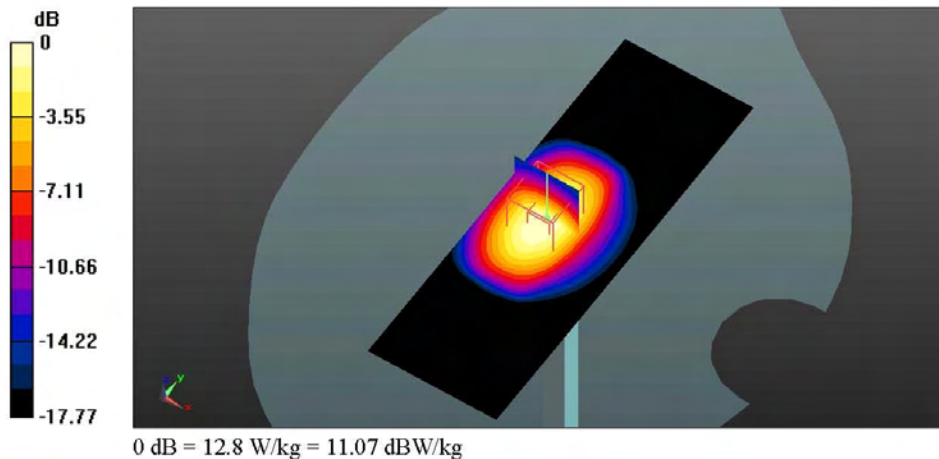
grid:  $dx = 5$ mm,  $dy = 5$ mm,  $dz = 5$ mm

Reference Value = 76.97 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 18.3 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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Test Laboratory: The name of your organization

**MSL2450\_System check\_20150312**

**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:  $f = 2450$  MHz;  $\sigma = 1.879$  S/m;  $\epsilon_r = 50.722$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

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

**DASY Configuration:**

- Probe: ES3DV3 - SN3295; ConvF(4.23, 4.23, 4.23); Calibrated: 3/14/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn854; Calibrated: 12/15/2014
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: xxxx
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (51x81x1):**

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 17.9 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)**

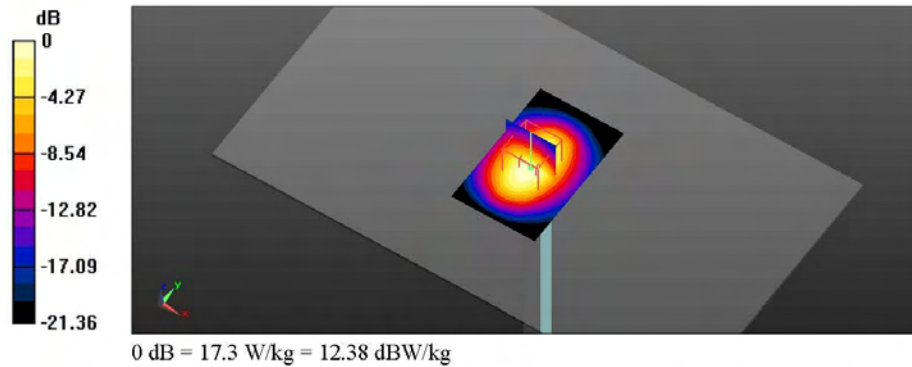
**(7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 96.58 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.16 W/kg

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



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Test Laboratory: GTA-Beijing

**HSL2450\_System Validation\_20150312**

**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:  $f = 2450$  MHz;  $\sigma = 1.759$  S/m;  $\epsilon_r = 40.054$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

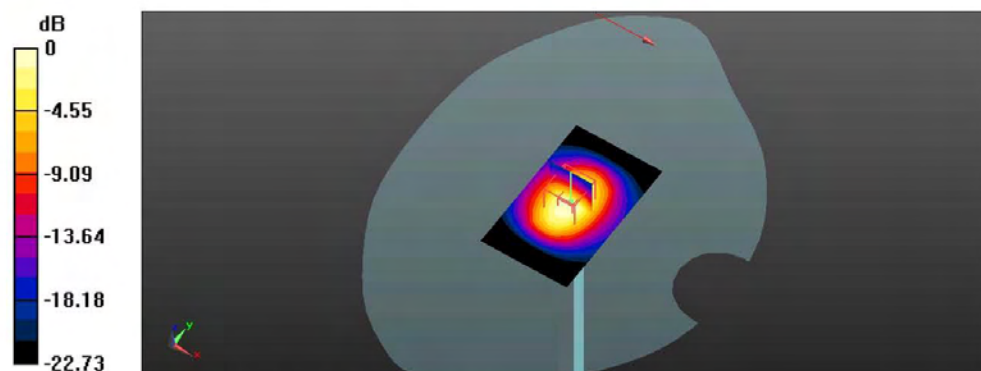
- Probe: ES3DV3 - SN3295; ConvF(4.53, 4.53, 4.53); Calibrated: 3/14/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/8/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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


Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
 Maximum value of SAR (interpolated) = 16.2 W/kg

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

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 96.52 V/m; Power Drift = 0.05 dB  
 Peak SAR (extrapolated) = 25.3 W/kg  
**SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.5 W/kg**  
 Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.1dBW/kg

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Test Laboratory: The name of your organization

**MSL2600\_System check\_20150215**

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN1088**

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;  $\sigma = 2.08$  S/m;  $\epsilon_r = 50.214$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3169; ConvF(3.92, 3.92, 3.92); Calibrated: 12/16/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn854; Calibrated: 12/15/2014
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: xxxx
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (51x81x1):**

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
 Maximum value of SAR (interpolated) = 19.4 W/kg

**Configuration/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)**

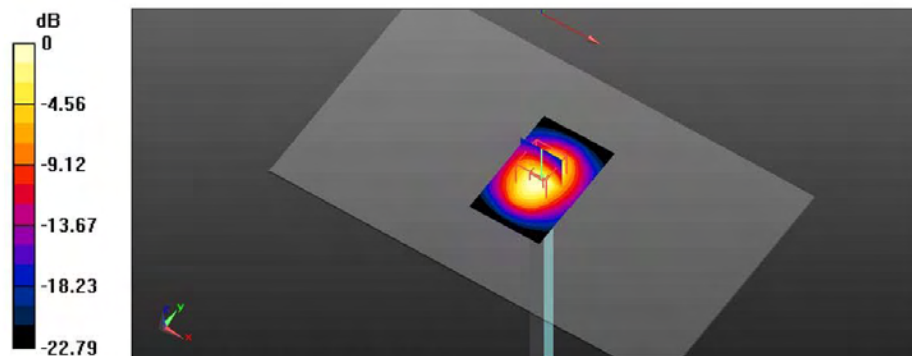
**(7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 97.38 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 29.5 W/kg

**SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.24 W/kg**

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg

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Test Laboratory: GTA-Beijing

**HSL2600\_System Check\_20150215**

**DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1088**

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;  $\sigma = 2.045$  S/m;  $\epsilon_r = 39.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

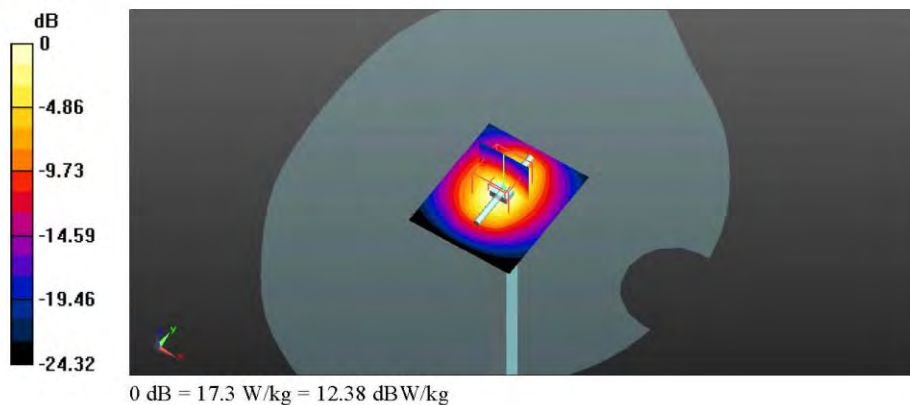
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3295; ConvF(4.34, 4.34, 4.34); Calibrated: 3/14/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/8/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (51x61x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm  
Maximum value of SAR (interpolated) = 19.1 W/kg

**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 91.69 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 34.3 W/kg  
**SAR(1 g) = 15.2 W/kg; SAR(10 g) = 6.65 W/kg**  
Maximum value of SAR (measured) = 17.3 W/kg



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Test Laboratory: GTA-Beijing

**5GHz Body validation**

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1176**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.52$  S/m;  $\epsilon_r = 49.943$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7306; ConvF(4.48, 4.48, 4.48); Calibrated: 7/16/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn854; Calibrated: 12/15/2014
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: xxxx
- DASY 52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 19.4 W/kg

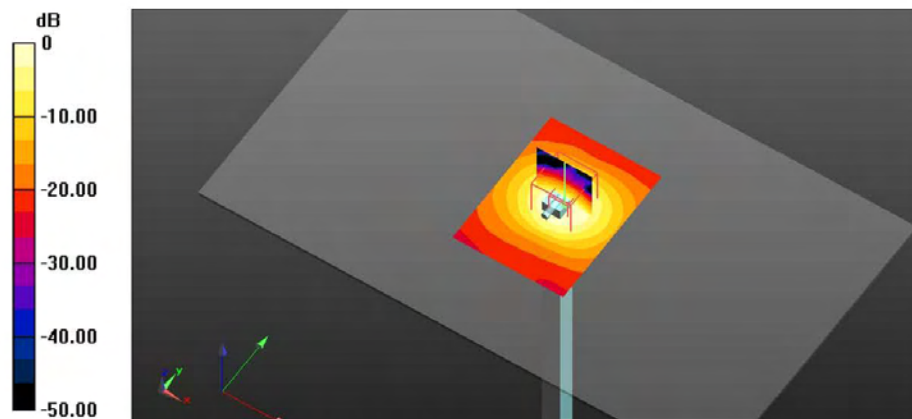
**Configuration/Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 37.72 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 45.7 W/kg

SAR(1 g) = 8.44 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 8.38 W/kg



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Date/Time: 3/5/2015 10:16:47 AM

Test Laboratory: GTA-Beijing

**5GHz Head validation**

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1176**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.815$  S/m;  $\epsilon_r = 34.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN7306; ConvF(4.85, 4.85, 4.85); Calibrated: 7/16/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn854; Calibrated: 12/15/2014
- Phantom: SAM near door; Type: QD000P40CD; Serial: TP:xxxx
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Validation/Area Scan (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 18.1 W/kg

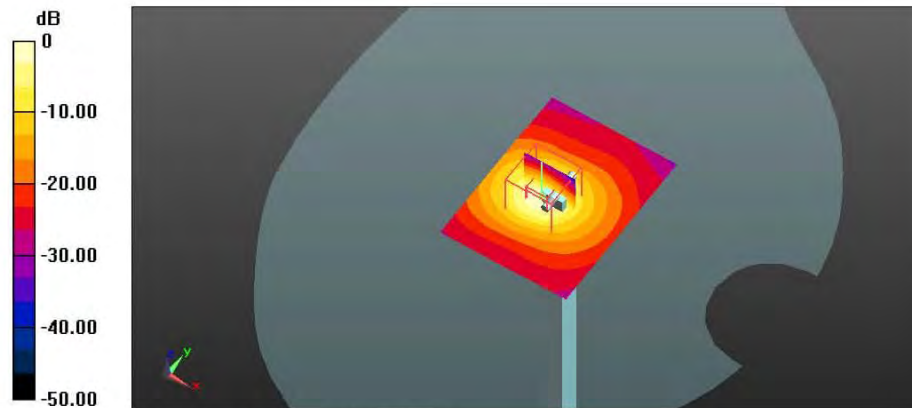
**Configuration/Validation/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 35.63 V/m; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 36.3 W/kg

**SAR(1 g) = 8.86 W/kg; SAR(10 g) = 2.4 W/kg**

Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.58 dBW/kg