

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

PY7-PM0817 SAR FCC Test Report

Page 1 of 1

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 MHz; $\sigma = 0.954$ S/m; $\epsilon_r = 56.564$; $\rho = 1000$ kg/m³

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 mm, dy=1.000 mm

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

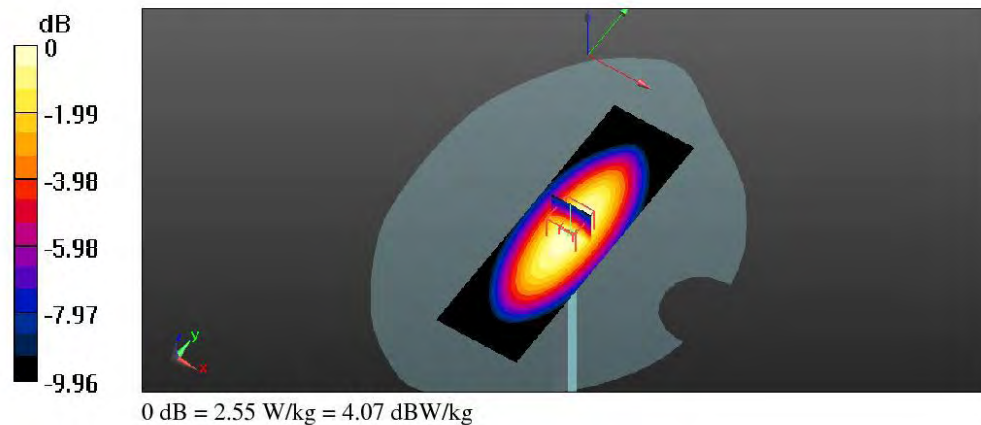
Configuration/Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Date/Time: 7/20/2014 2:42:26 PM

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 MHz; $\sigma = 0.984$ S/m; $\epsilon_r = 53.545$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/835MHz Body_Validation/Area Scan (61x181x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

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

Configuration/835MHz Body_Validation/Zoom Scan (7x7x7)/Cube 0: Measurement

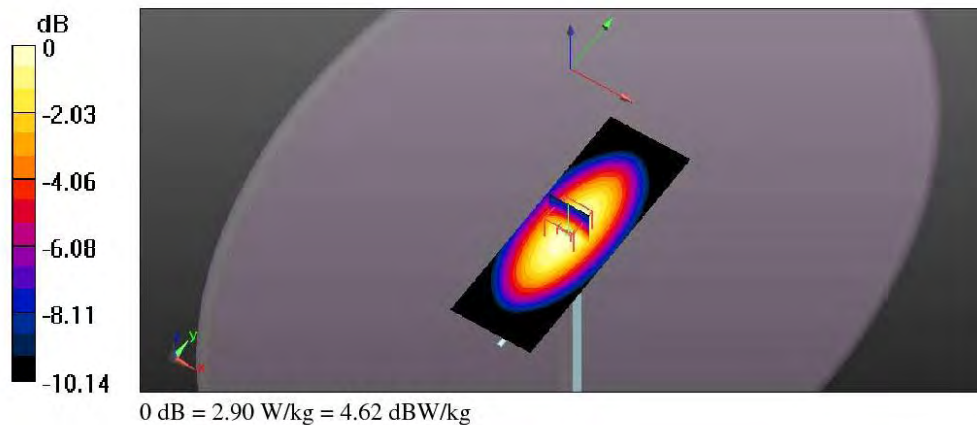
grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Date/Time: 7/23/2014 11:38:18 AM

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 MHz; $\sigma = 0.995$ S/m; $\epsilon_r = 53.85$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/835MHz Head_Validation/Area Scan (61x181x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

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

Configuration/835MHz Head_Validation/Zoom Scan (7x7x7)/Cube 0: Measurement

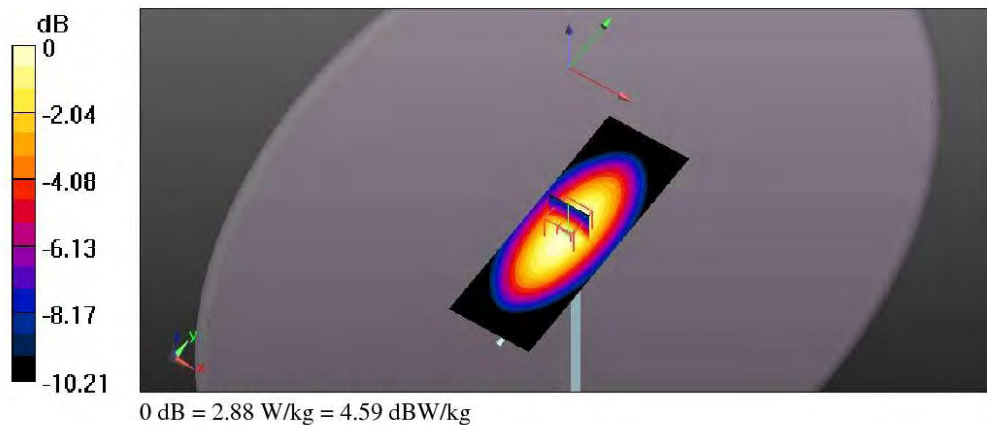
grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Date/Time: 7/21/2014 1:46:22 PM

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/m³
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

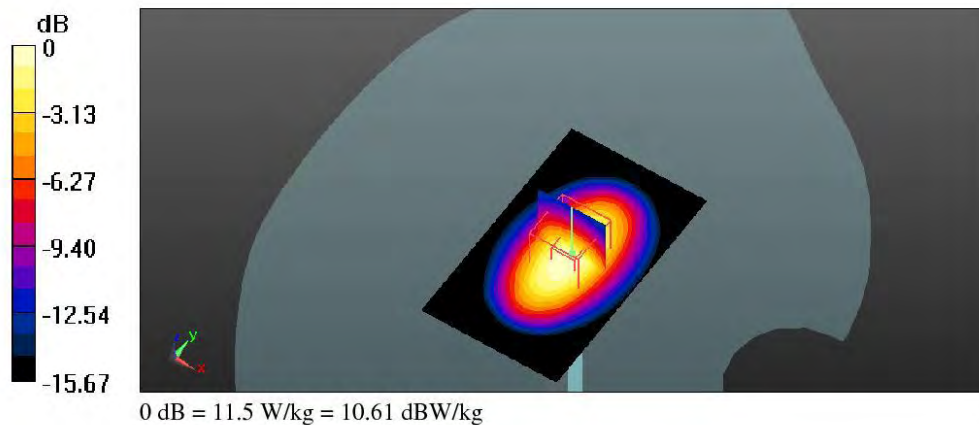
Configuration/Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Date/Time: 7/24/2014 10:50:25 AM

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 MHz; $\sigma = 1.494$ S/m; $\epsilon_r = 54.513$; $\rho = 1000$ kg/m³
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) = 11.8 W/kg

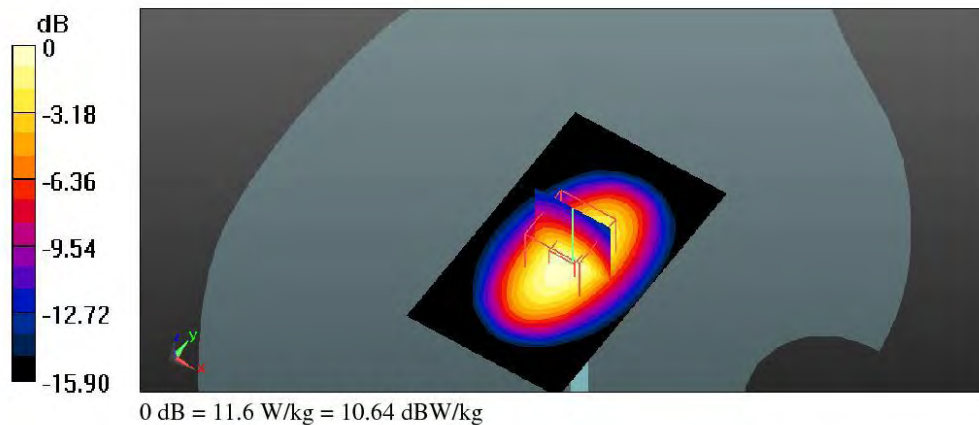
Configuration/Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



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

PY7-PM0817 SAR FCC Test Report

Page 1 of 1

Date/Time: 7/11/2014 1:19:32 PM

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 MHz; $\sigma = 1.493$ S/m; $\epsilon_r = 51.078$; $\rho = 1000$ kg/m³

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) = 13.4 W/kg

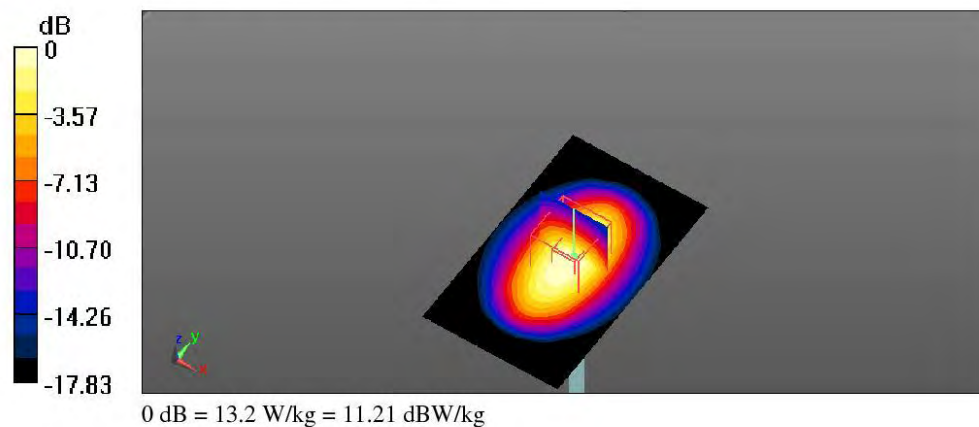
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



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

PY7-PM0817 SAR FCC Test Report

Page 1 of 1

Date/Time: 7/18/2014 2:55:54 PM

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/m³

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

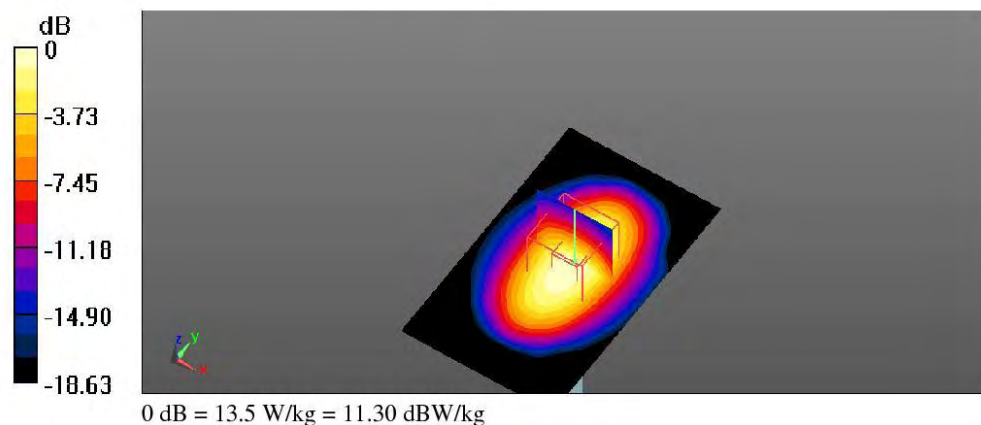
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



file://C:\Users\28851853\MSL1900_System check_20140718-1.htm

8/2/2014

SONY 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

Page 1 of 1

Date/Time: 7/21/2014 9:50:35 AM

Test Laboratory: GTA-Beijing

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/m³

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
- 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

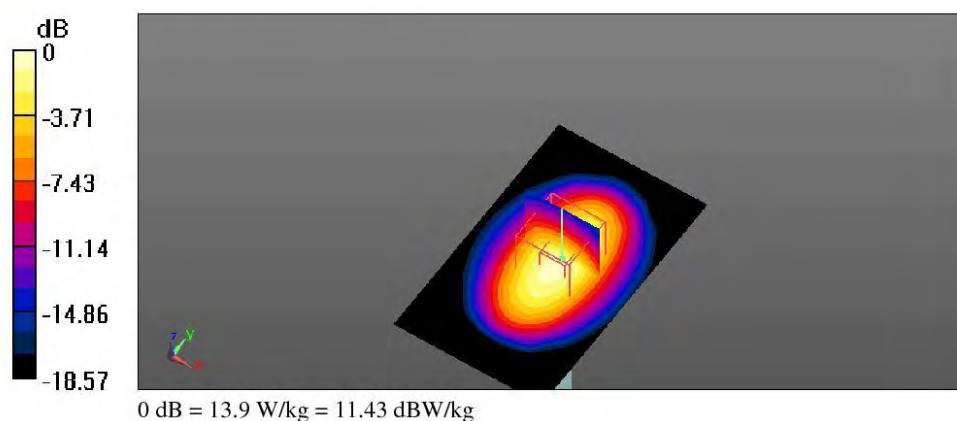
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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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8/2/2014

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

PY7-PM0817 SAR FCC Test Report

Page 1 of 1

Date/Time: 7/23/2014 10:36:03 AM

Test Laboratory: GTA-Beijing

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; σ = 1.549 S/m; ϵ_r = 51.51; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (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
- 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) = 13.0 W/kg

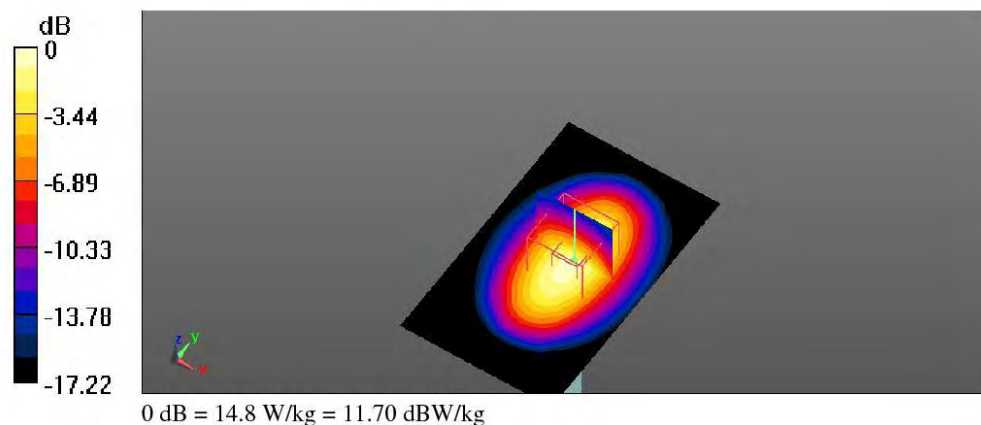
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Date/Time: 7/29/2014 3:41:26 PM

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; $\sigma = 2.177 \text{ S/m}$; $\epsilon_r = 50.376$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

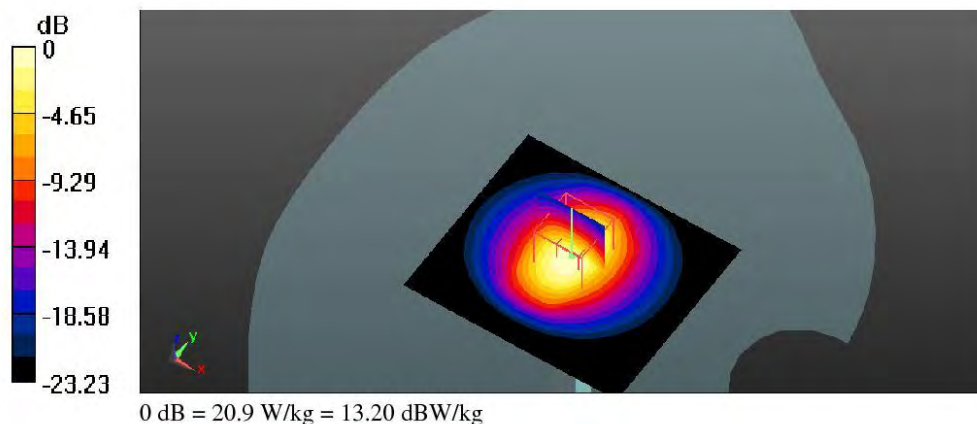
- Probe: EX3DV4 - SN3843; ConvF(6.27, 6.27, 6.27); Calibrated: 2/21/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1326; Calibrated: 2/14/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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=5mm, dy=5mm, dz=5mm
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



SONY 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

Date/Time: 12/30/2015 10:38:25 AM

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; σ = 2.237 S/m; ϵ_r = 50.418; ρ = 1000 kg/m³
Phantom section: Center Section

DASY Configuration:

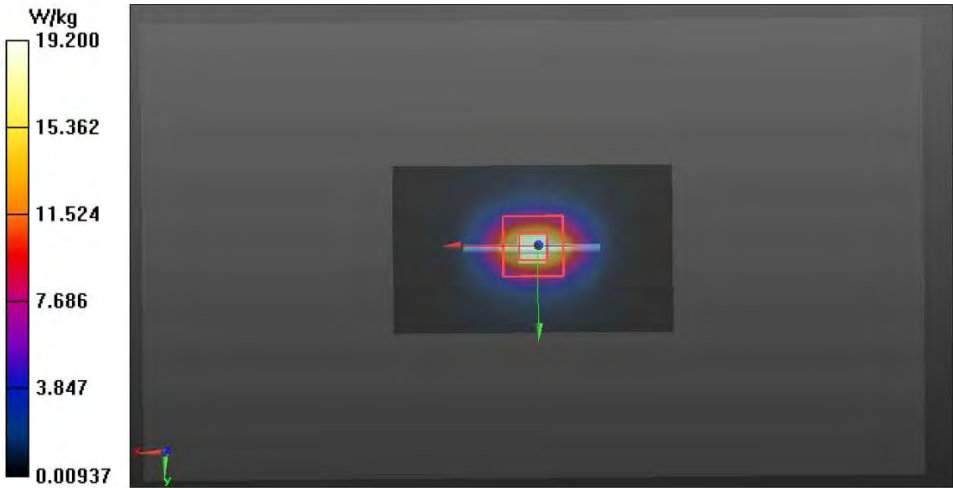
- Probe: EX3DV4 - SN3843; ConvF(6.23, 6.23, 6.23); Calibrated: 3/13/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1437; Calibrated: 7/23/2015
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: xxxx
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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=5mm, dy=5mm, dz=5mm
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



SONY	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

Page 1 of 1

Date/Time: 7/28/2014 10:16:43 AM

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/m³

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

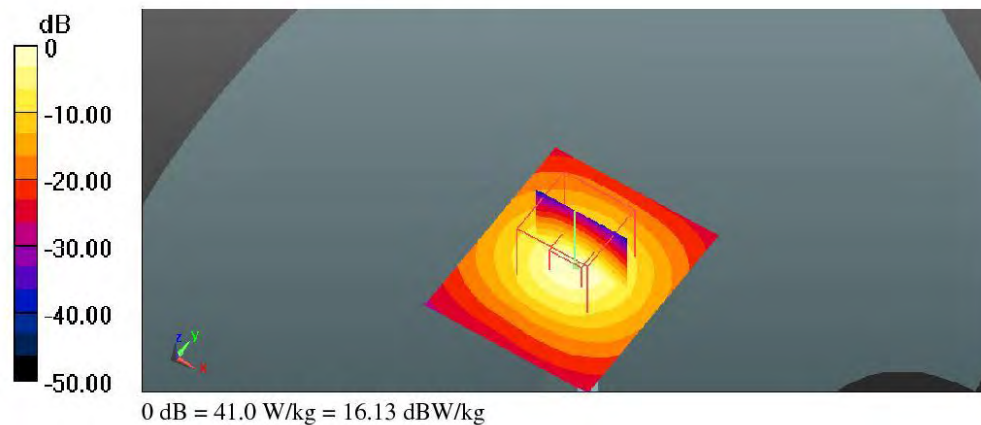
(7x7x7) (8x8x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

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



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8/2/2014

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

PY7-PM0817 SAR FCC Test Report

Page 1 of 1

Date/Time: 7/28/2014 5:01:31 PM

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; σ = 5.816 S/m; ϵ_r = 49.382; ρ = 1000 kg/m³

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

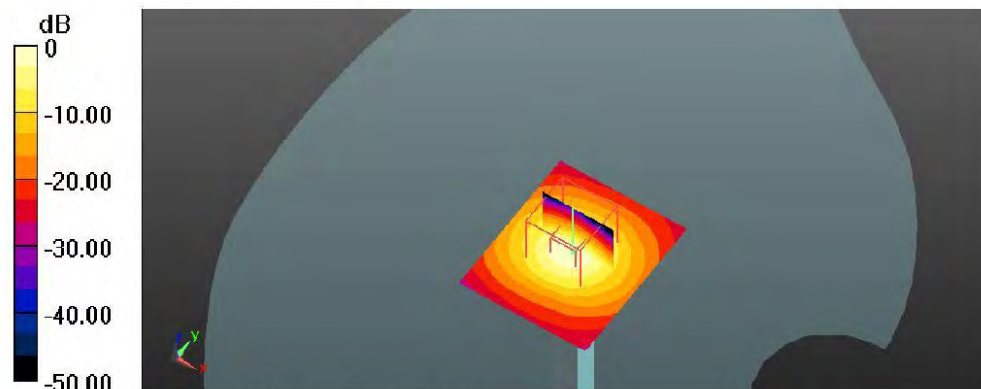
(7x7x7) (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

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

SONY	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

Page 1 of 1

Date/Time: 7/28/2014 6:41:27 PM

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/m³

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

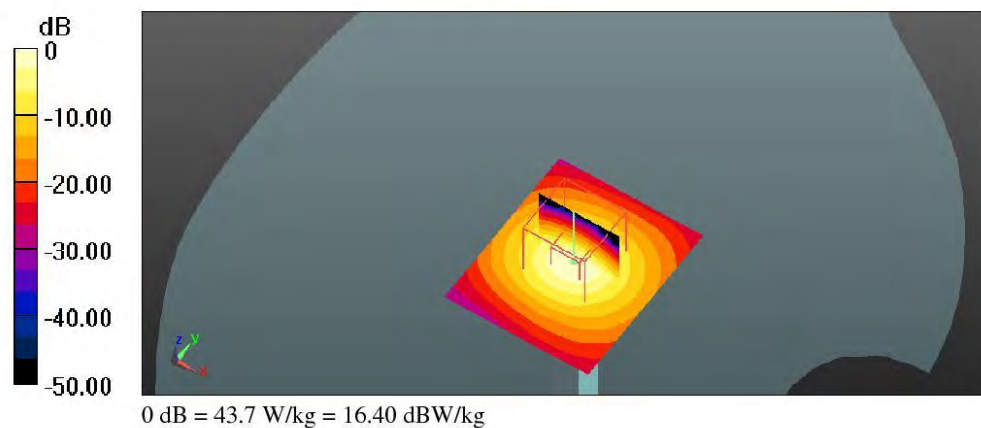
(7x7x7) (8x8x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

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



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8/2/2014

SONY	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

Page 1 of 1

Date/Time: 2/10/2015 1:20:10 PM

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: DASY5 (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:

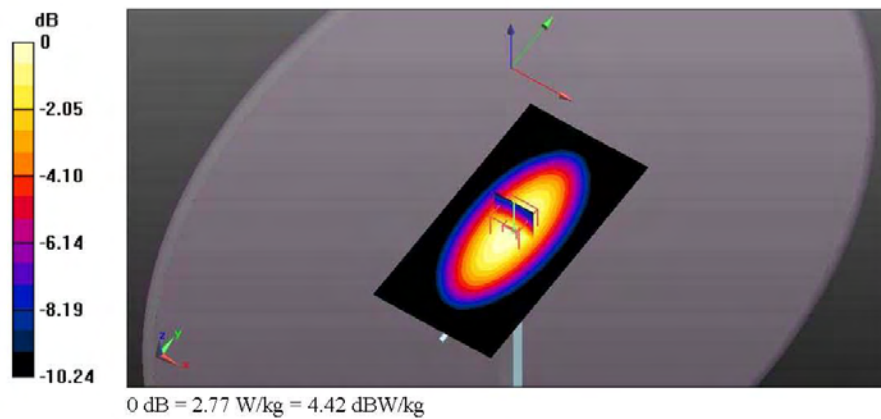
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

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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SONY	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

Date/Time: 2/10/2015 9:48:45 AM

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 MHz; σ = 0.864 S/m; ϵ_r = 41.239; ρ = 1000 kg/m³

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 mm, dy=1.000 mm

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

Configuration/835MHz Head_Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

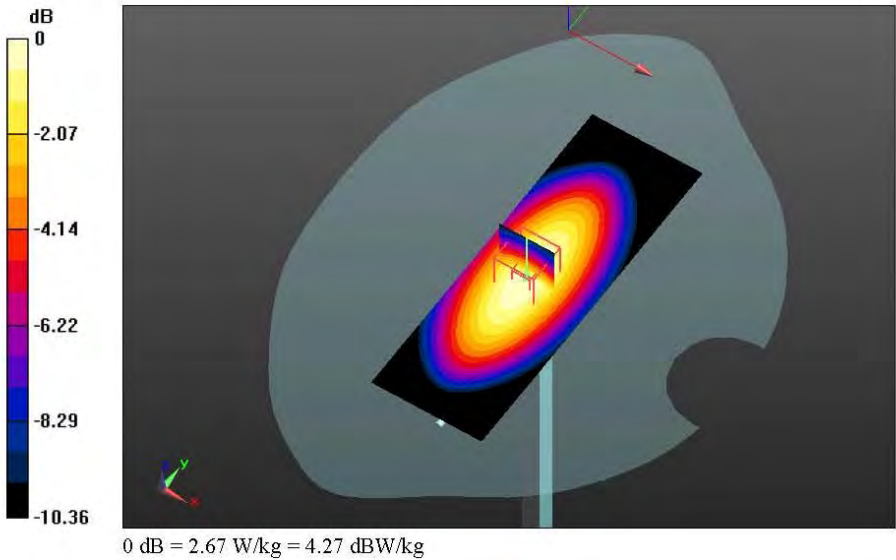
dx=5mm, dy=5mm, dz=5mm

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



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

PY7-PM0817 SAR FCC Test Report

Page 1 of 1

Date/Time: 2/10/2015 10:47:44 AM

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; σ = 1.559 S/m; ϵ_r = 51.606; ρ = 1000 kg/m³

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
- DASY52 52.8(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

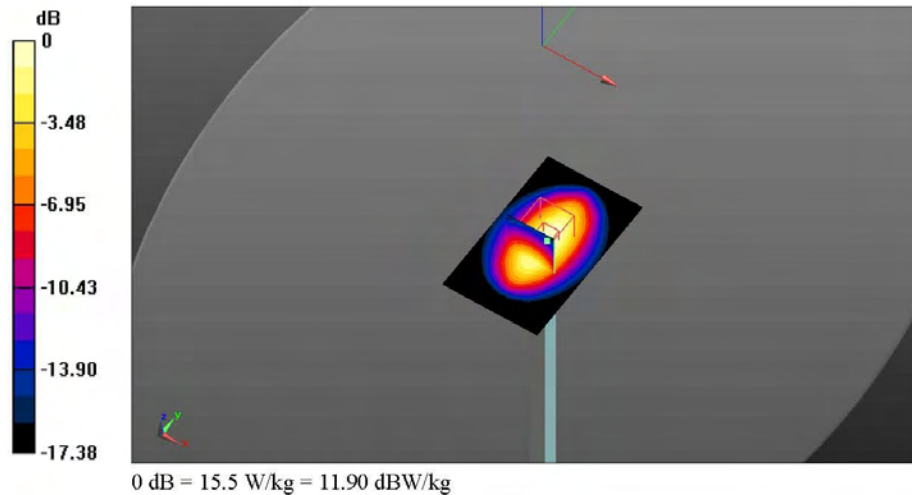
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



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SONY	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

Page 1 of 1

Date/Time: 2/10/2015 10:15:10 AM

Test Laboratory: GTA-Beijing

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/m³

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

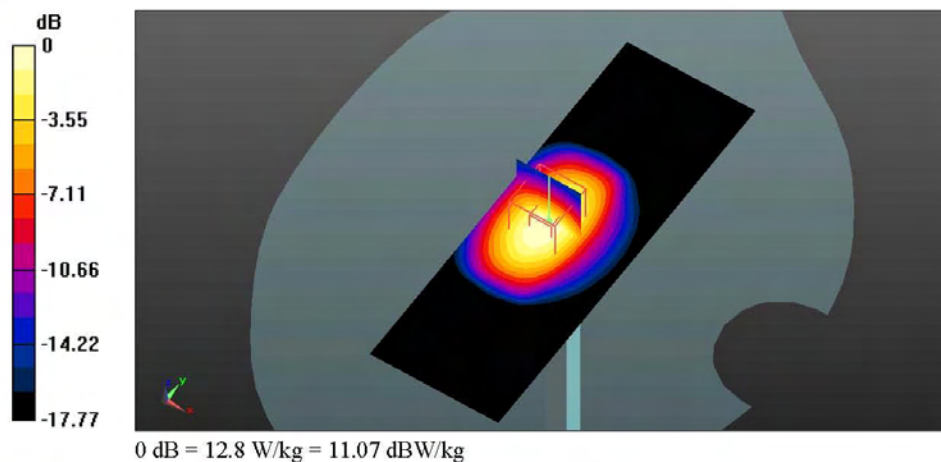
grid: $dx = 5$ mm, $dy = 5$ mm, $dz = 5$ mm

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



file://C:\Documents and Settings\XP009940\Desktop\Backup\Report\1900MHz head val... 3/3/2015

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

PY7-PM0817 SAR FCC Test Report

Date/Time: 3/12/2015 4:35:14 PM

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; σ = 1.879 S/m; ϵ_r = 50.722; ρ = 1000 kg/m³

Phantom section: Center Section

Measurement Standard: DASY5 (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
- DASY52 52.8(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)

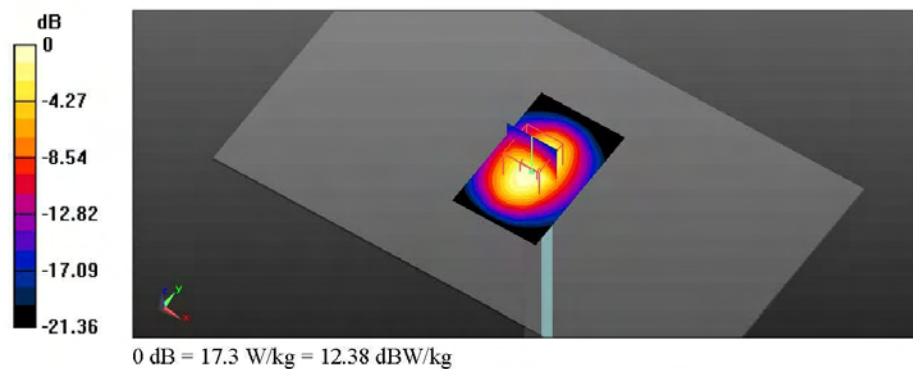
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Date/Time: 3/12/2015 9:34:16 AM

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: $f = 2450\text{ MHz}$; $\sigma = 1.759\text{ S/m}$; $\epsilon_r = 40.054$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

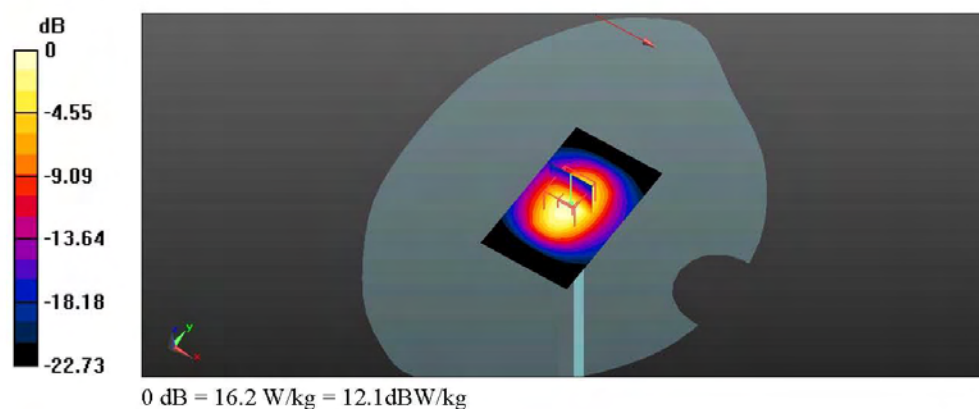
- Probe: ES3DV3 - SN3295; ConvF(4.53, 4.53, 4.53); Calibrated: 3/14/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE4 Sn1437; Calibrated: 7/8/2014
- Phantom: SAM with CRP v5.0#1696; Type: QD000P40CD; Serial: TP:1696
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Validation/Area Scan (61x101x1):

Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$
Maximum value of SAR (interpolated) = 16.2 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 = 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



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

PY7-PM0817 SAR FCC Test Report

Date/Time: 2/15/2015 10:44:16 AM

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; σ = 2.08 S/m; ϵ_r = 50.214; ρ = 1000 kg/m³
 Phantom section: Center Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

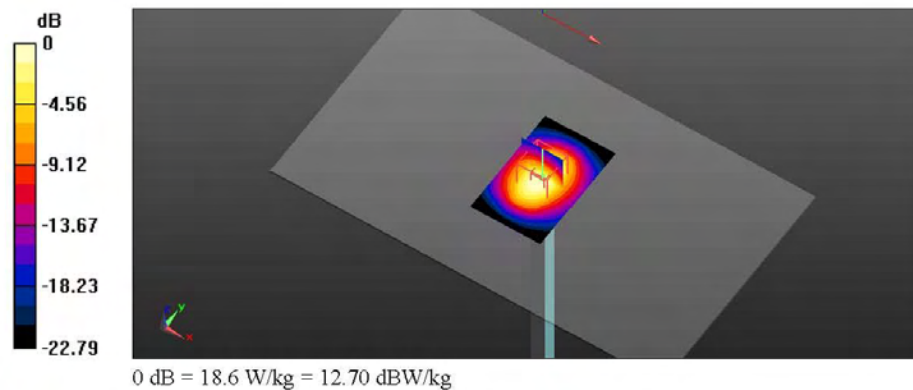
- Probe: ES3DV3 - SN3169; ConvF(3.92, 3.92, 3.92); Calibrated: 12/16/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn854; Calibrated: 12/15/2014
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: xxxx
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

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=5mm, dy=5mm, dz=5mm
 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



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

PY7-PM0817 SAR FCC Test Report

Date/Time: 2/15/2015 9:55:38 AM

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/m³

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

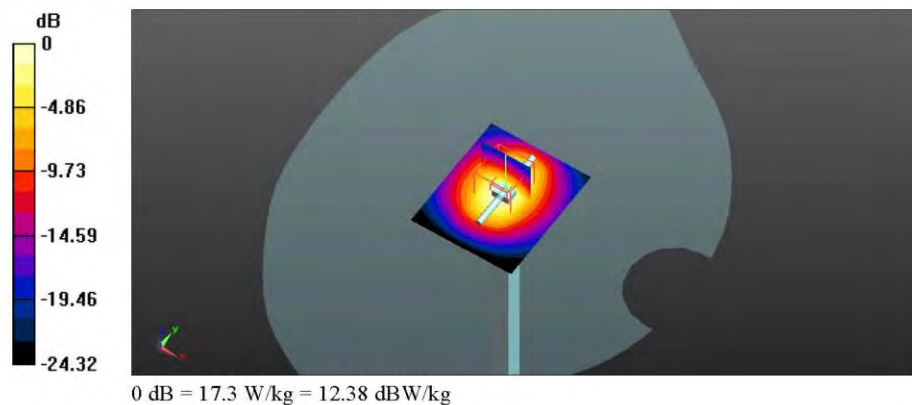
Configuration/Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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



SONY	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

Page 1 of 1

Date/Time: 2/25/2015 2:51:02 PM

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/m³

Phantom section: Right Section

Measurement Standard: DASY5 (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(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

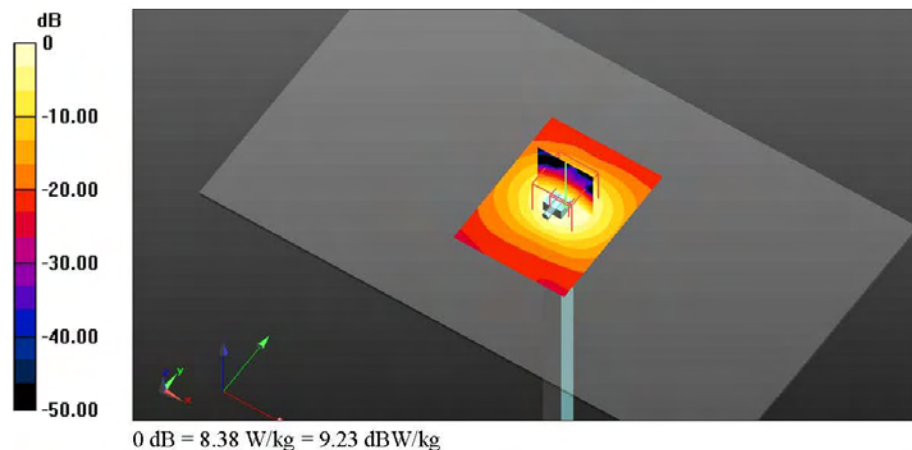
Configuration/Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

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

PY7-PM0817 SAR FCC Test Report

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; $\sigma = 4.815 \text{ S/m}$; $\epsilon_r = 34.36$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (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
- DASY52 52.8(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=4mm, dy=4mm, dz=2mm
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

