

**Appendix A for KSCR220500087701**

Date: 2022/06/13

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

**SystemPerformanceCheck-D750**

**DUT: Dipole 750 MHz D750V3; Type: D750V2; Serial: 1188**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.878 \text{ S/m}$ ;  $\epsilon_r = 43.027$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7346; ConvF(9.39, 9.39, 9.39); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check at Frequencies Low 1 GHz/Pin=250 mW, dist=15 mm (EX-Probe)/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

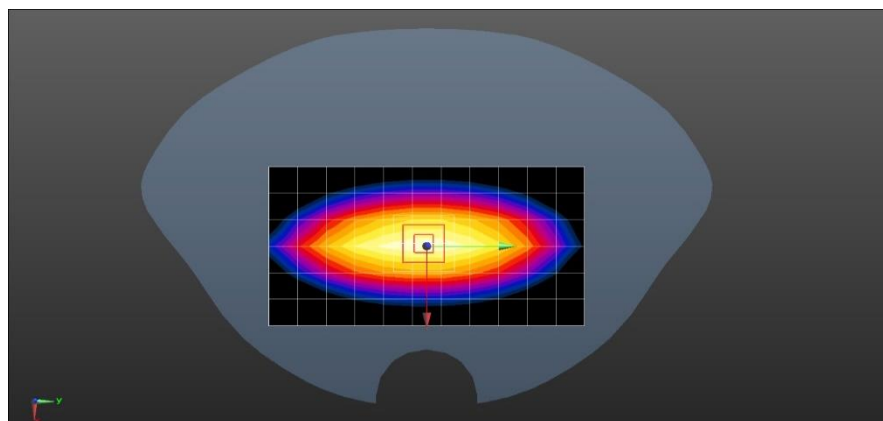
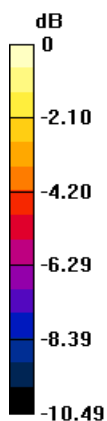
Maximum value of SAR (measured) = 3.13 W/kg

**System Performance Check at Frequencies Low 1 GHz/Pin=250 mW, dist=15 mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 61.18 V/m; Power Drift = -0.14 dB; Peak SAR (extrapolated) = 3.56 W/kg

**SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.31 W/kg**

Maximum value of SAR (measured) = 3.19 W/kg



0 dB = 3.19 W/kg = 5.04 dBW/kg



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 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

**SystemPerformanceCheck-D835**

**DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: 4d114**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.89 \text{ S/m}$ ;  $\epsilon_r = 40.972$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

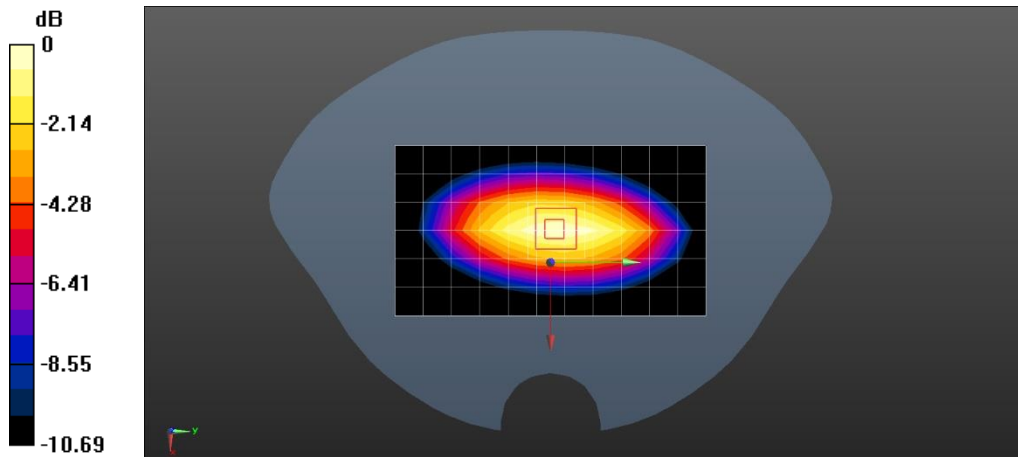
DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(9.25, 9.25, 9.25); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check at Frequencies Low 1 GHz/Pin=250 mW, dist=15 mm (EX-Probe)/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 3.55 W/kg

**System Performance Check at Frequencies Low 1 GHz/Pin=250 mW, dist=15 mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 65.81 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 4.22 W/kg  
**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.55 W/kg**  
 Maximum value of SAR (measured) = 3.58 W/kg



0 dB = 3.58 W/kg = 5.54 dBW/kg



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Date: 2022/06/17

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

## SystemPerformanceCheck-D1800

**DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: D1800V2 - SN:2d170**

Communication System: UID 10000, CW; Frequency: 1800 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.384 \text{ S/m}$ ;  $\epsilon_r = 40.258$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.09, 8.09, 8.09); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

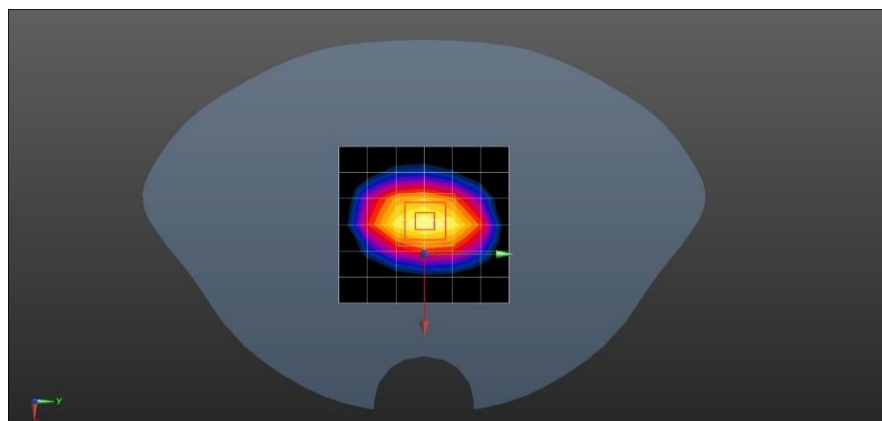
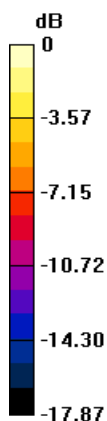
**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 9.10 W/kg

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 93.36 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 15.4 W/kg

**SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.92 W/kg**

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg



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**SystemPerformanceCheck-D1900**

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: 5d136**

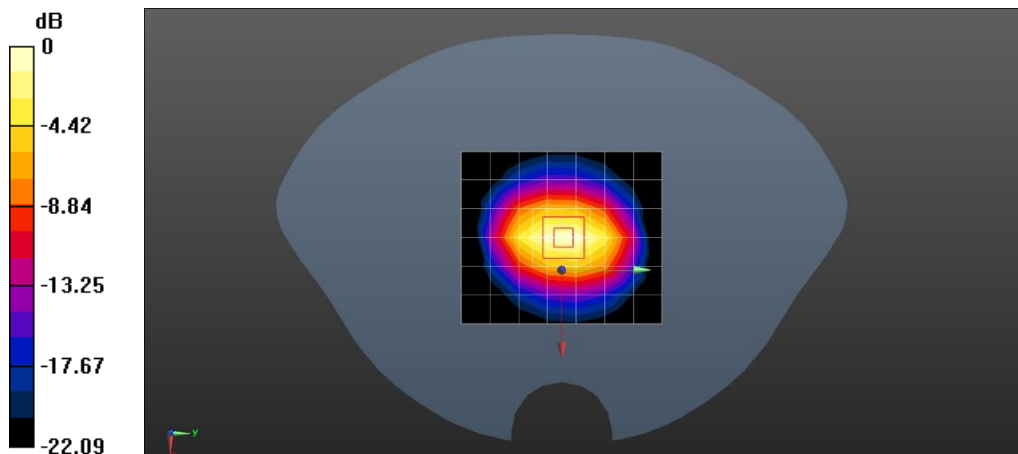
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.413 \text{ S/m}$ ;  $\epsilon_r = 41.79$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.88, 7.88, 7.88); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 14.9 W/kg

**System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 108.0 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 22.0 W/kg  
**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 4.94 W/kg**  
 Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.01 dBW/kg



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Test Laboratory: Compliance Certification Services (Kunshan) Inc.

## SystemPerformanceCheck- D2300

**DUT: Dipole 2300 MHz D2300V2; Type: D2300V2; Serial: 1096**

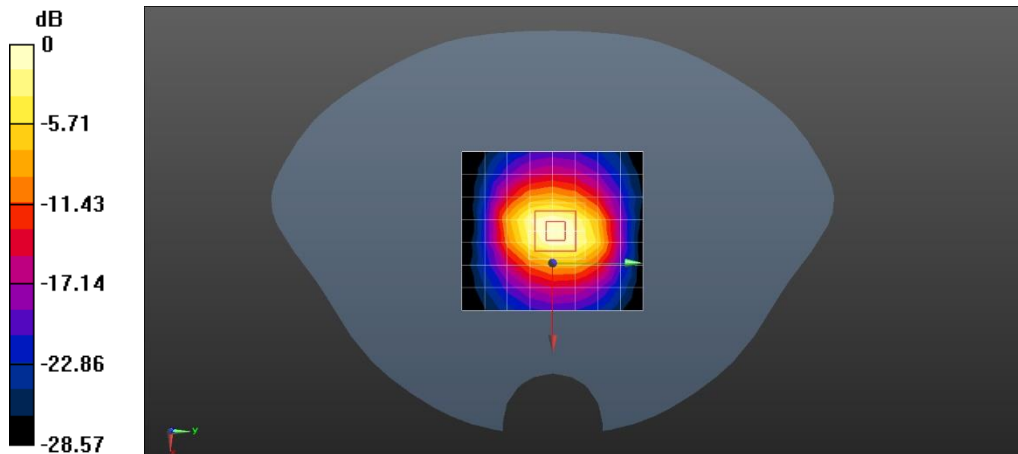
Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 2300 \text{ MHz}$ ;  $\sigma = 1.649 \text{ S/m}$ ;  $\epsilon_r = 39.655$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.53, 7.53, 7.53); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 16.4 W/kg

**System Performance Check at Frequencies above 1 GHz/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 = 117.4 V/m; Power Drift = -0.06 dB  
 Peak SAR (extrapolated) = 27.4 W/kg  
**SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.82 W/kg**  
 Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg



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Test Laboratory: Compliance Certification Services (Kunshan) Inc.

**SystemPerformanceCheck- D2450**

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: 817**

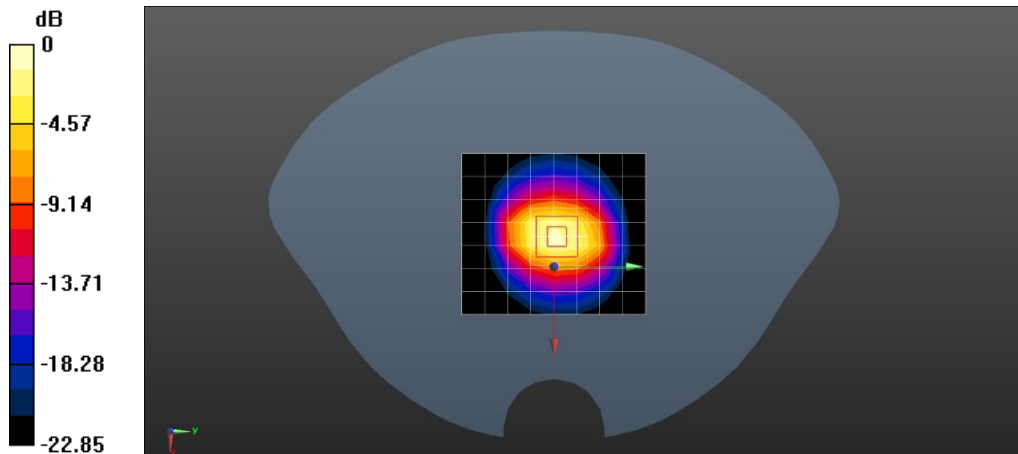
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.823 \text{ S/m}$ ;  $\epsilon_r = 39.147$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.36, 7.36, 7.36); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 17.8 W/kg

**System Performance Check at Frequencies above 1 GHz/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 = 114.0 V/m; Power Drift = -0.13 dB  
 Peak SAR (extrapolated) = 30.0 W/kg  
**SAR(1 g) = 13.83 W/kg; SAR(10 g) = 6.59 W/kg**  
 Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg



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Test Laboratory: Compliance Certification Services (Kunshan) Inc.

**System Performance Check-D2600MHz**

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1158**

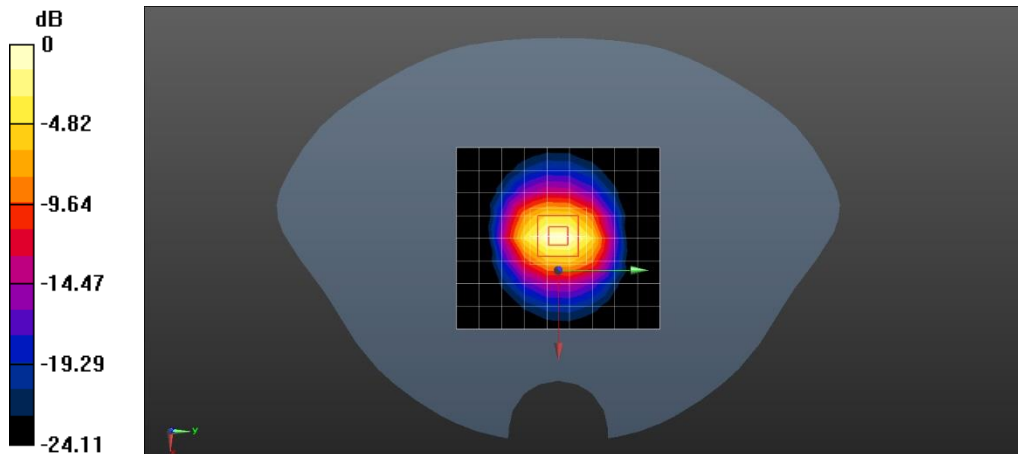
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 2600 \text{ MHz}$ ;  $\sigma = 1.982 \text{ S/m}$ ;  $\epsilon_r = 38.658$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.27, 7.27, 7.27); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 21.1 W/kg

**System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 110.9 V/m; Power Drift = 0.10 dB  
 Peak SAR (extrapolated) = 32.8 W/kg  
**SAR(1 g) = 14.21 W/kg; SAR(10 g) = 6.27 W/kg**  
 Maximum value of SAR (measured) = 23.7 W/kg



0 dB = 23.7 W/kg = 13.75 dBW/kg



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Date: 2022/06/27

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

## SystemPerformanceCheck-D3500MHz

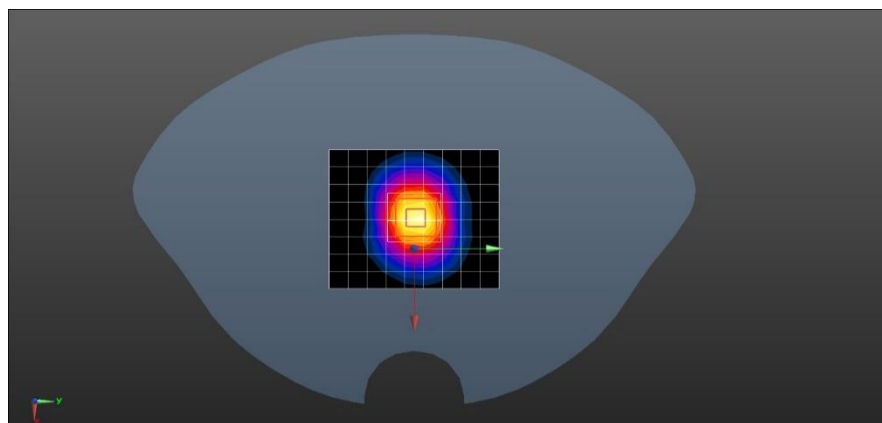
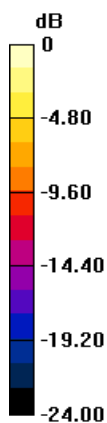
**DUT: Dipole D3500V2; Type: D3500HzV2; Serial: 1101**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 3500 \text{ MHz}$ ;  $\sigma = 3.007 \text{ S/m}$ ;  $\epsilon_r = 38.27$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(6.5, 6.5, 6.5); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=3500 MHz/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 13.7 W/kg  
**System Performance Check with D3500V2 Dipole (graded grid)/d=10mm, Pin=100mW, f=3500 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 65.83 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 19.4 W/kg  
**SAR(1 g) = 5.82 W/kg; SAR(10 g) = 2.25 W/kg**  
 Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



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## System Performance Check-D3700

**DUT: Dipole D3700V2; Type: D3700HzV2; Serial: 1103**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 3700 \text{ MHz}$ ;  $\sigma = 3.241 \text{ S/m}$ ;  $\epsilon_r = 37.641$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(6.4, 6.4, 6.4); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check with D3700HzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=3700 MHz/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 14.4 W/kg

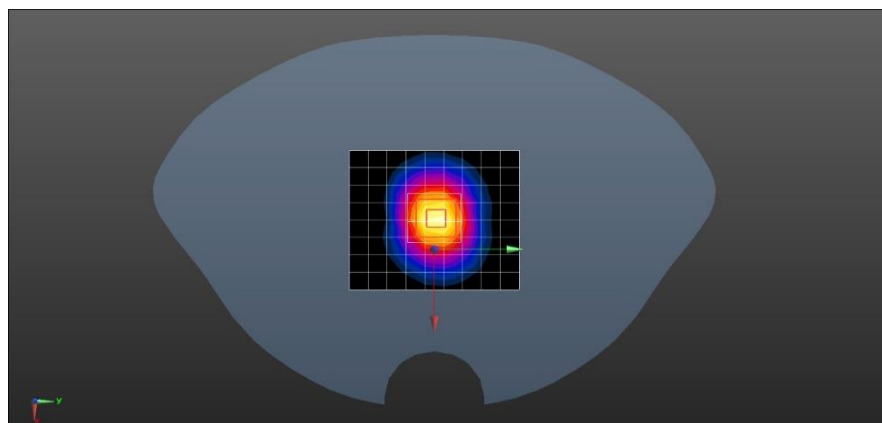
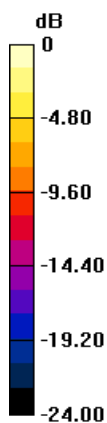
**System Performance Check with D3700V2 Dipole (graded grid)/d=10mm, Pin=100mW, f=3700 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.34 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 21.2 W/kg

**SAR(1 g) = 6.52 W/kg; SAR(10 g) = 2.27 W/kg**

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg



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t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
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Date: 2022/06/30

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

## System Performance Check-Head 5200MHz

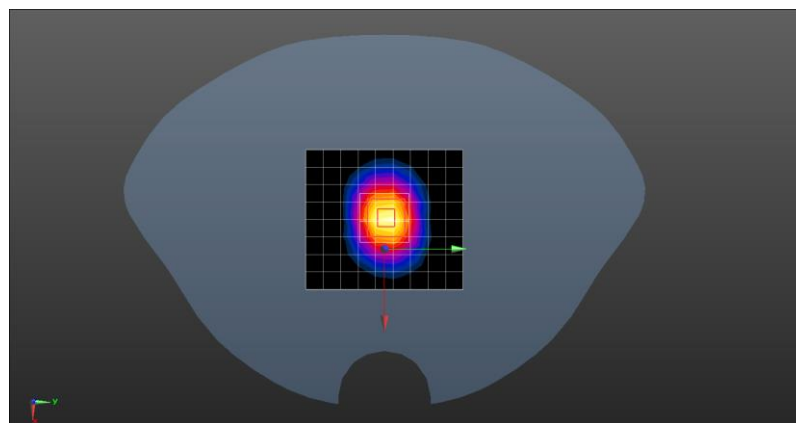
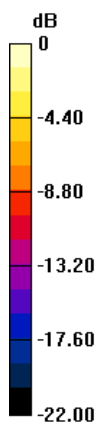
**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095**

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 4.662 \text{ S/m}$ ;  $\epsilon_r = 36.049$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.2, 5.2, 5.2); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 16.8 W/kg  
**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 73.00 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 32.7 W/kg  
**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.24 W/kg**  
 Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg



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## System Performance Check-Head 5800MHz

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.239 \text{ S/m}$ ;  $\epsilon_r = 34.497$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section  
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

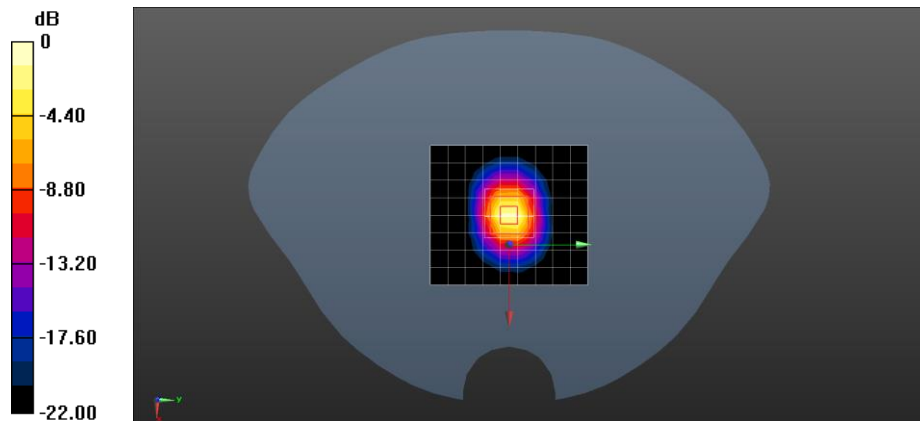
- Probe: EX3DV4 - SN7346; ConvF(4.93, 4.93, 4.93); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 17.4 W/kg

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Reference Value = 73.97 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 38.0 W/kg

**SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.13 W/kg; Maximum value of SAR (measured) = 21.8 W/kg**



0 dB = 21.8 W/kg = 13.38 dBW/kg



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t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
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