



REPORT No.: SZ21080255S01

## Annex C Plots of System Performance Check



Shenzhen Morlab Communications Technology Co., Ltd.  
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,  
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

[Http://www.morlab.cn](http://www.morlab.cn)

Fax: 86-755-36698525

E-mail: [service@morlab.cn](mailto:service@morlab.cn)

## System Check\_750MHz

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.914 \text{ S/m}$ ;  $\epsilon_r = 42.143$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(6.34, 6.34, 6.34) @ 750 MHz; Calibrated: 2020.11.27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**CW 750/Area Scan (81x81x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.31 \text{ W/kg}$

**CW 750/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $51.98 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$

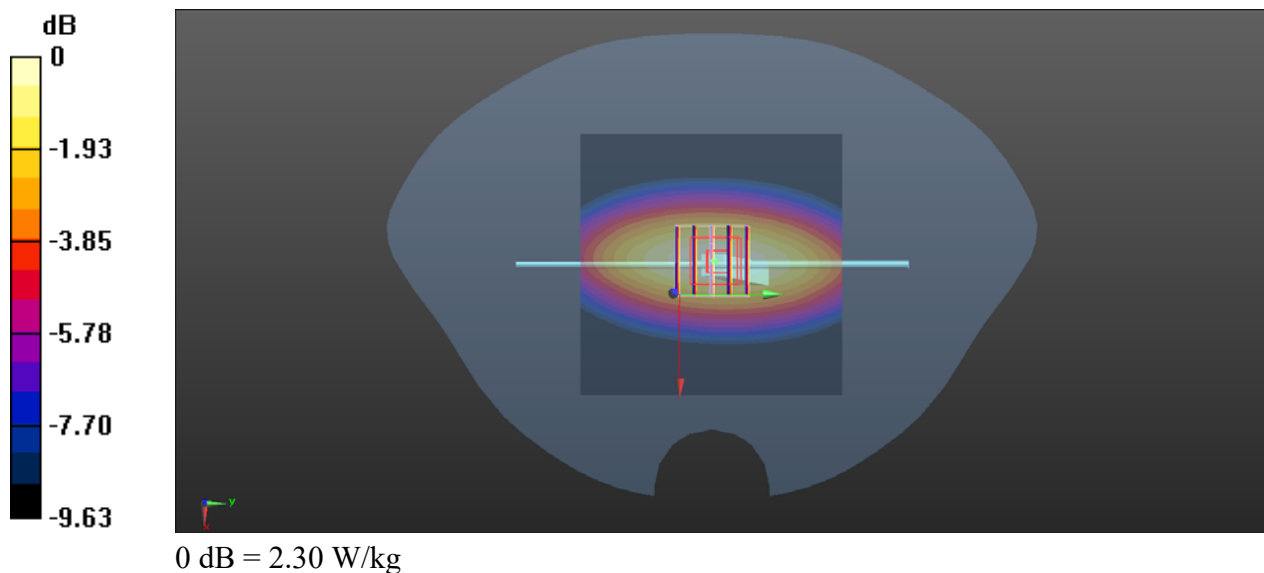
Peak SAR (extrapolated) =  $3.12 \text{ W/kg}$

**SAR(1 g) =  $2.11 \text{ W/kg}$ ; SAR(10 g) =  $1.37 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) =  $2.30 \text{ W/kg}$



## System Check\_900MHz

Communication System: UID 0, CW (0); Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL\_900 Medium parameters used:  $f = 900$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 41.572$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(9.27, 9.27, 9.27) @ 900 MHz; Calibrated: 2021.01.22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.14 (7483)

**CW900/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.91 W/kg

**CW900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.29 V/m; Power Drift = 0.05 dB

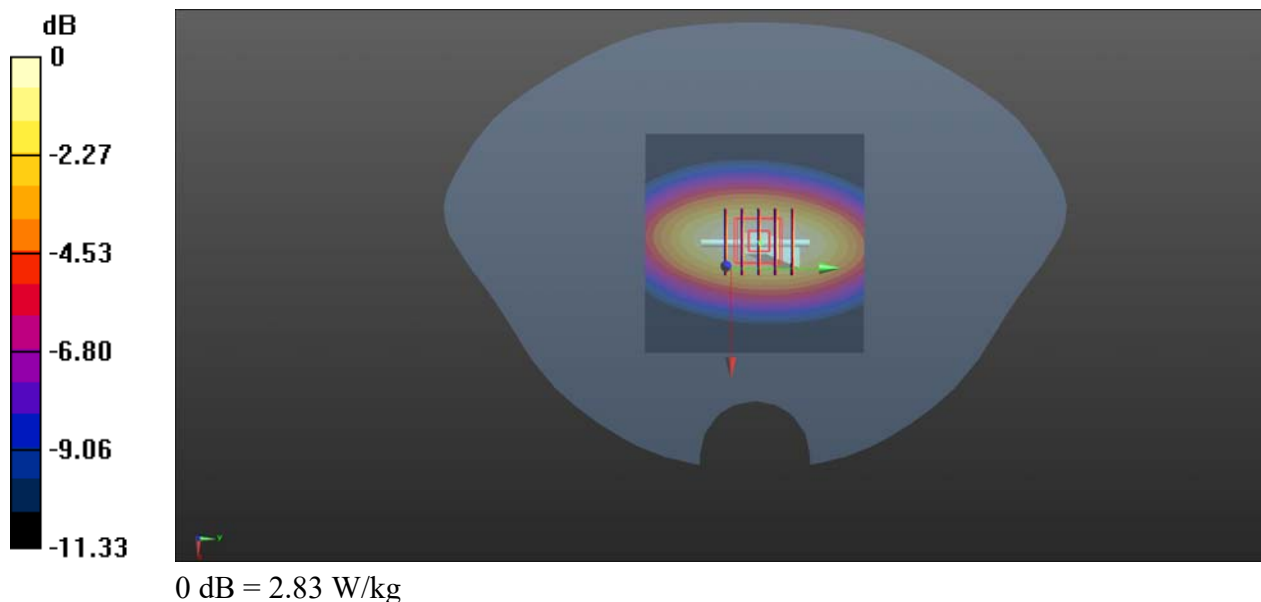
Peak SAR (extrapolated) = 3.97 W/kg

**SAR(1 g) = 2.78 W/kg; SAR(10 g) = 1.74 W/kg**

Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 65.5%

Maximum value of SAR (measured) = 2.83 W/kg



## System Check\_1800MHz

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1  
Medium: 1800 Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.426$  S/m;  $\epsilon_r = 40.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

### DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(7.99, 7.99, 7.99) @ 1800 MHz; Calibrated: 2021.01.22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.14 (7483)

**CW1800/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

**CW1800/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.17 V/m; Power Drift = 0.05 dB

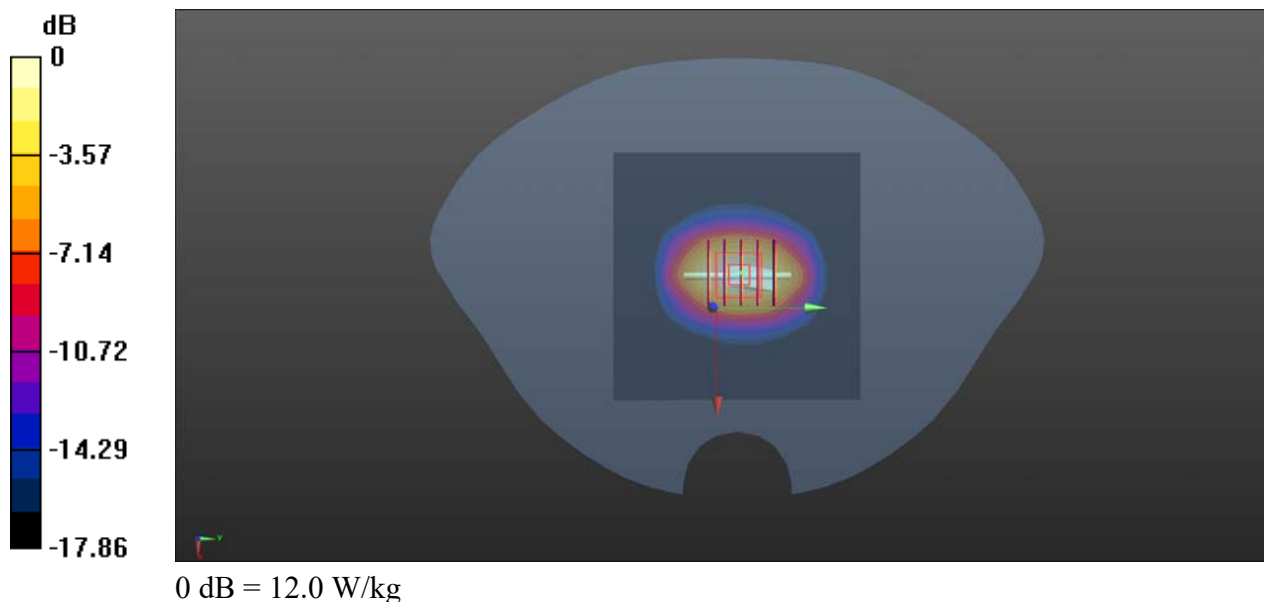
Peak SAR (extrapolated) = 20.0 W/kg

**SAR(1 g) = 10.01 W/kg; SAR(10 g) = 5.14 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 12.0 W/kg



## System Check\_2000MHz

Communication System: UID 0, CW (0); Frequency: 2000 MHz; Duty Cycle: 1:1  
Medium: 2000 Medium parameters used:  $f = 2000$  MHz;  $\sigma = 1.375$  S/m;  $\epsilon_r = 39.634$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

### DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(7.76, 7.76, 7.76) @ 2000 MHz; Calibrated: 2021.01.22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2020.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.14 (7483)

**CW2000/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

**CW2000/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.66 V/m; Power Drift = -0.11 dB

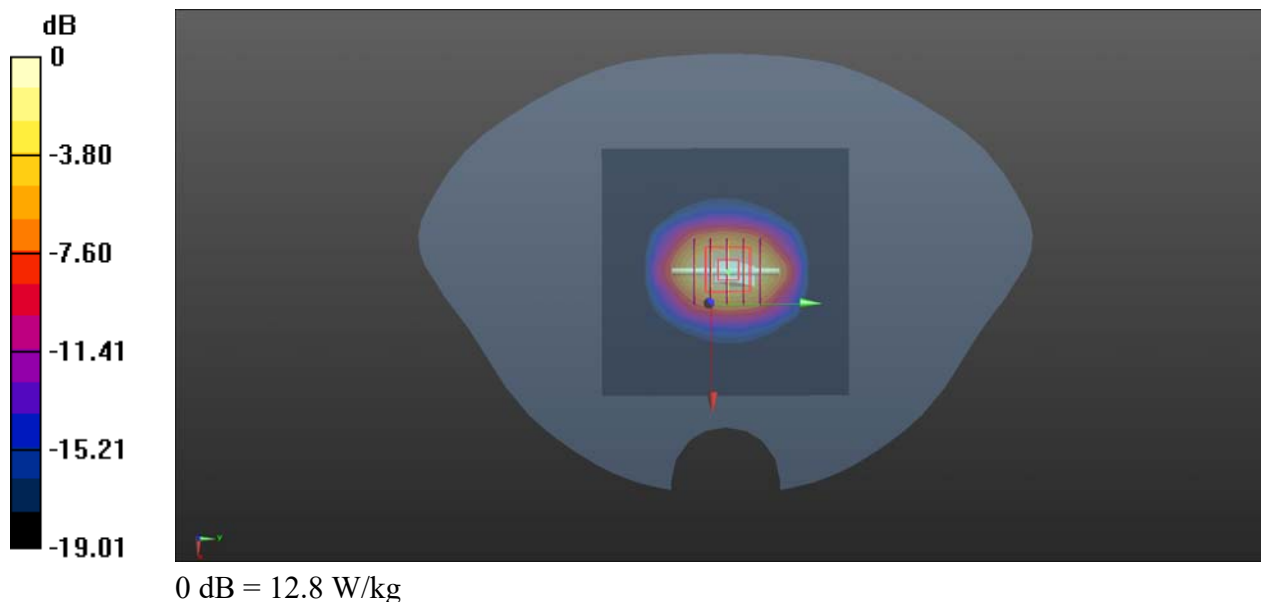
Peak SAR (extrapolated) = 21.7 W/kg

**SAR(1 g) = 10.28 W/kg; SAR(10 g) = 5.31 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.2%

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



## System Check\_2450MHz

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.846$  S/m;  $\epsilon_r = 38.139$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(7.3, 7.3, 7.3) @ 2450 MHz; Calibrated: 2021.01.22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**CW2450/Area Scan (81x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

**CW2450/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.8 V/m; Power Drift = -0.03 dB

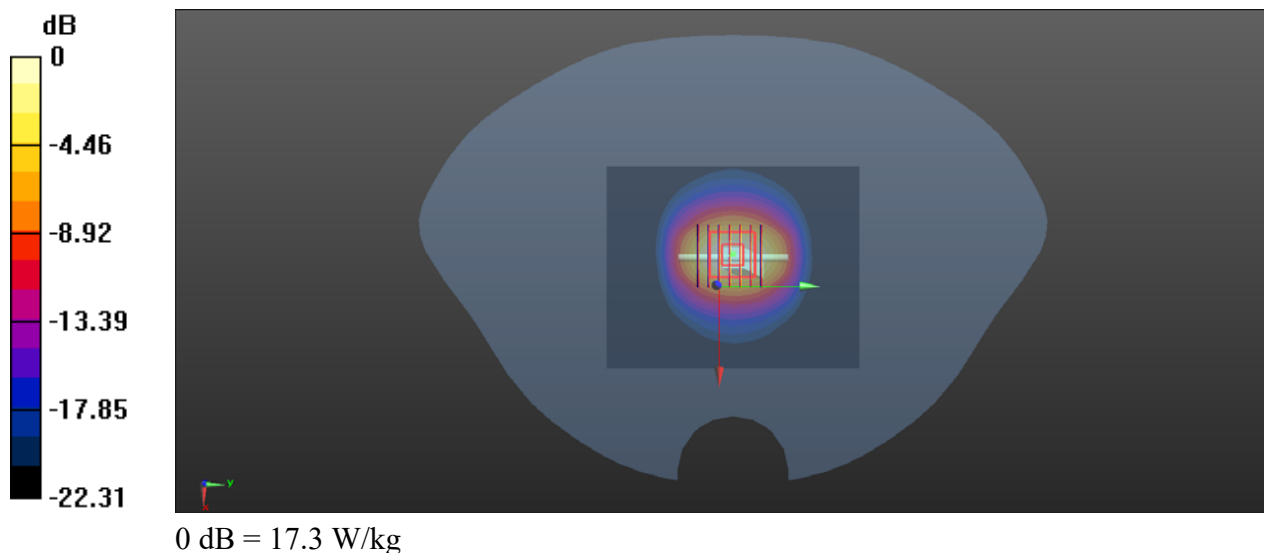
Peak SAR (extrapolated) = 32.4 W/kg

**SAR(1 g) = 13.15 W/kg; SAR(10 g) = 6.11 W/kg**

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

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



## System Check\_2600MHz

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL\_2600 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.971$  S/m;  $\epsilon_r = 38.479$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(7, 7, 7); Calibrated: 2021.01.22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2020.06.02
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**CW2600/Area Scan (81x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 16.9 W/kg

**CW2600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.05 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 32.4 W/kg

**SAR(1 g) = 13.72 W/kg; SAR(10 g) = 6.05 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

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

