

**Appendix B. SAR Measurement Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM850 251CH Right touch with Battery2-Second Antenna-state 1**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 849 \text{ MHz}$ ;  $\sigma = 0.913 \text{ S/m}$ ;  $\epsilon_r = 41.586$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.68, 6.68, 6.68); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) =  $0.661 \text{ W/kg}$

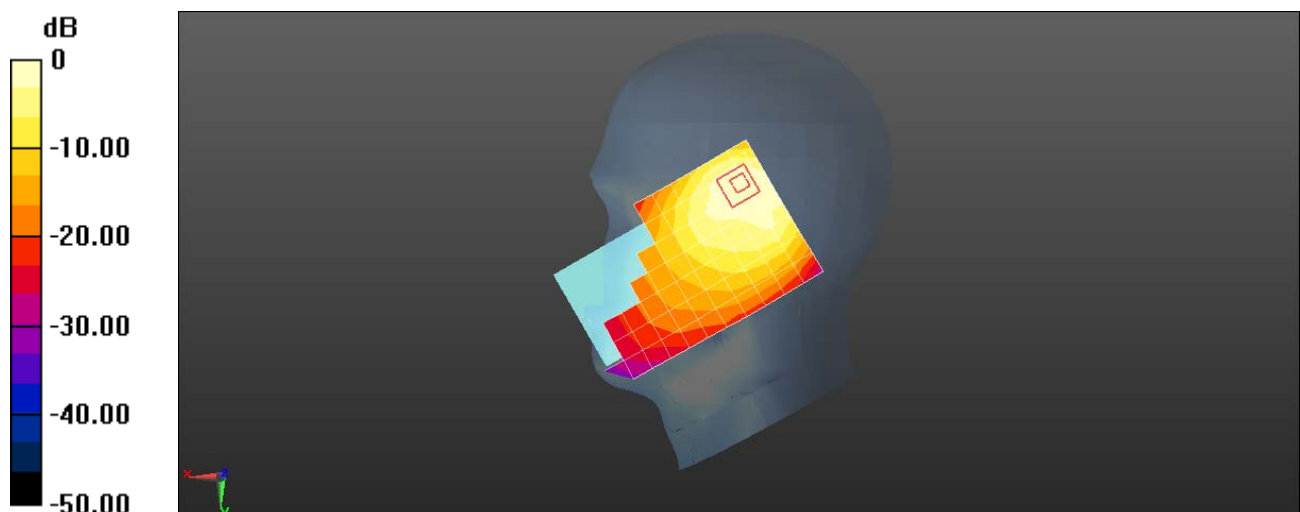
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $19.67 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$

Peak SAR (extrapolated) =  $1.52 \text{ W/kg}$

**SAR(1 g) =  $0.663 \text{ W/kg}$ ; SAR(10 g) =  $0.336 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.882 \text{ W/kg}$



$0 \text{ dB} = 0.661 \text{ W/kg} = -1.80 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM850 190CH Front side 15mm with Battery2-Second Antenna-state 1**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0707 W/kg

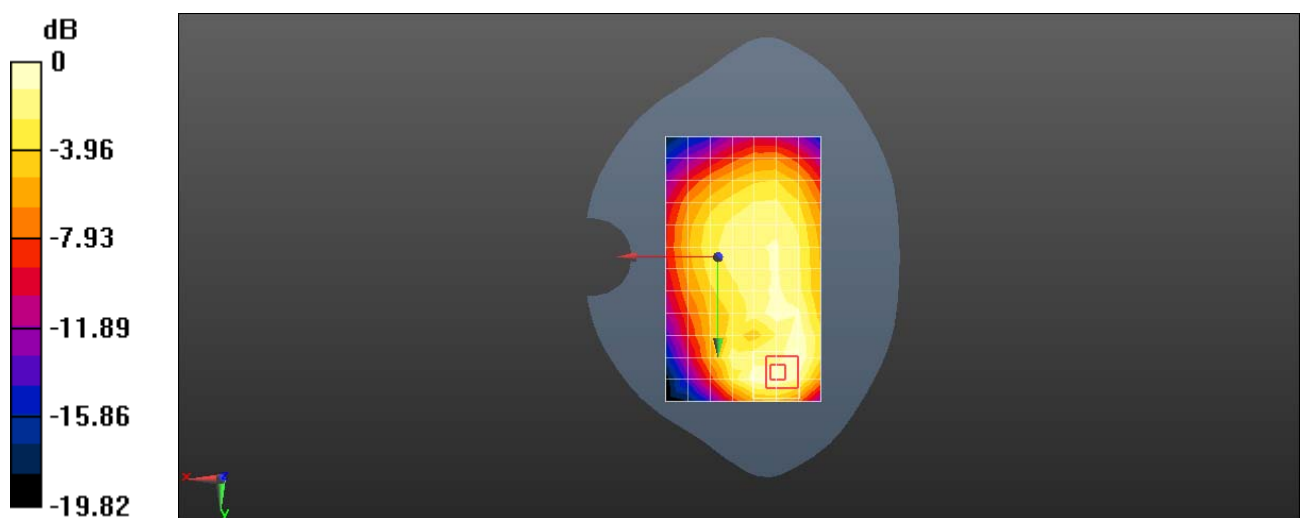
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.146 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.107 W/kg

**SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.038 W/kg**

Maximum value of SAR (measured) = 0.0775 W/kg



0 dB = 0.0707 W/kg = -11.51 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM850 GPRS 2Ts 190CH Front side 10mm with Battery2-Second Antenna-state 1**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.150 W/kg

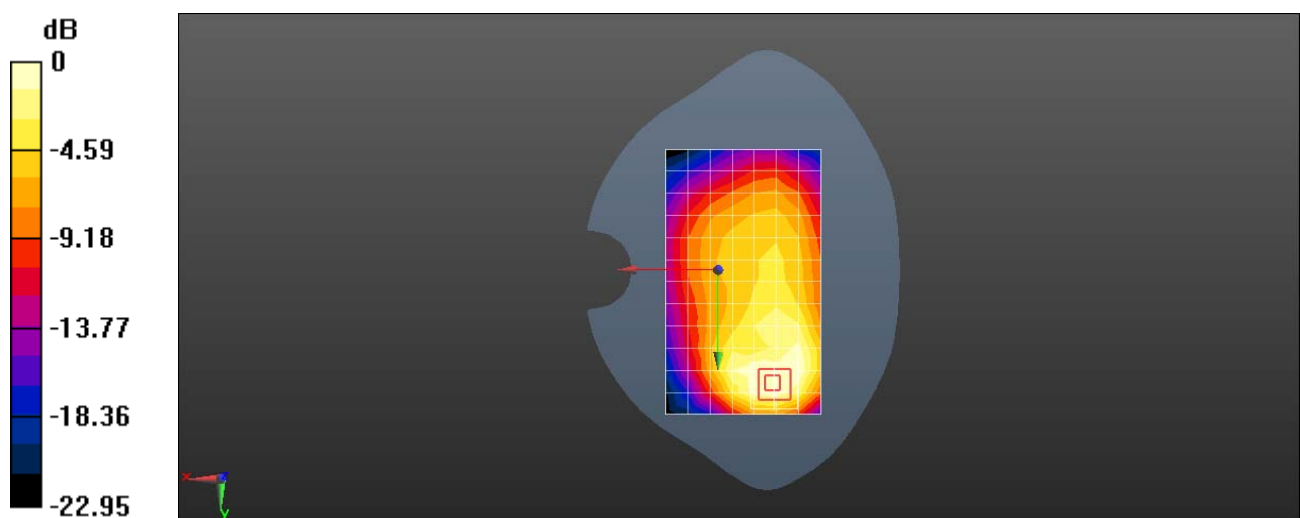
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.053 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.276 W/kg

**SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.084 W/kg**

Maximum value of SAR (measured) = 0.182 W/kg



0 dB = 0.150 W/kg = -8.24 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM1900 810CH Right touch with Battery2-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.439$  S/m;  $\epsilon_r = 39.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.33, 5.33, 5.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.496 W/kg

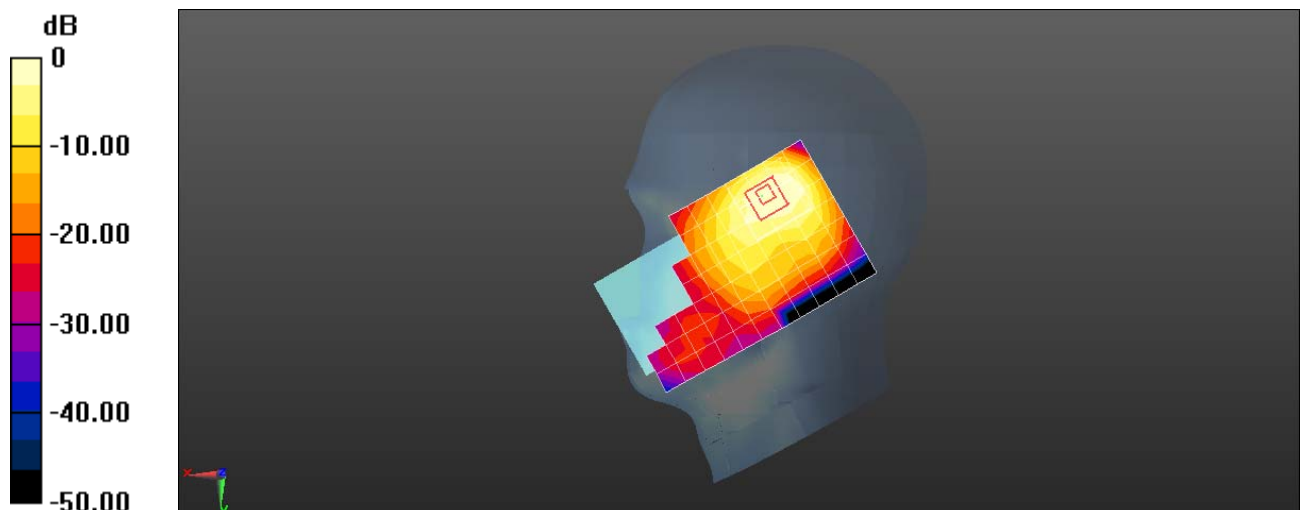
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.04 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.894 W/kg

**SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.242 W/kg**

Maximum value of SAR (measured) = 0.544 W/kg



0 dB = 0.496 W/kg = -3.05 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM1900 661H Front side 15mm with Battery2-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0405 W/kg

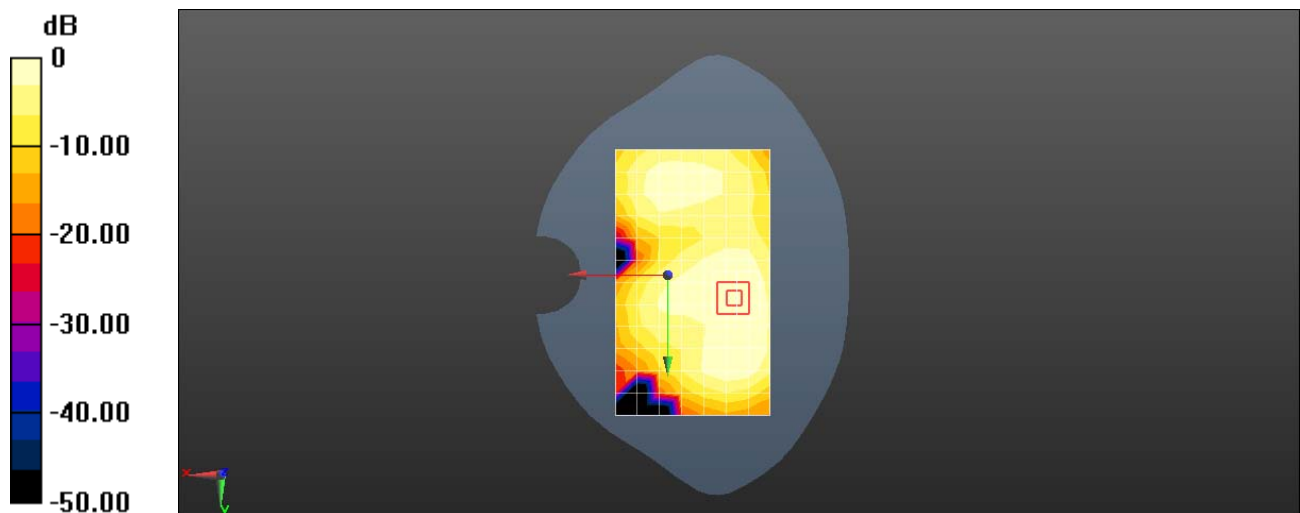
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.192 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0570 W/kg

**SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.024 W/kg**

Maximum value of SAR (measured) = 0.0433 W/kg



0 dB = 0.0405 W/kg = -13.93 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A GSM1900 GPRS 2TX 661H Left side 10mm-Second Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

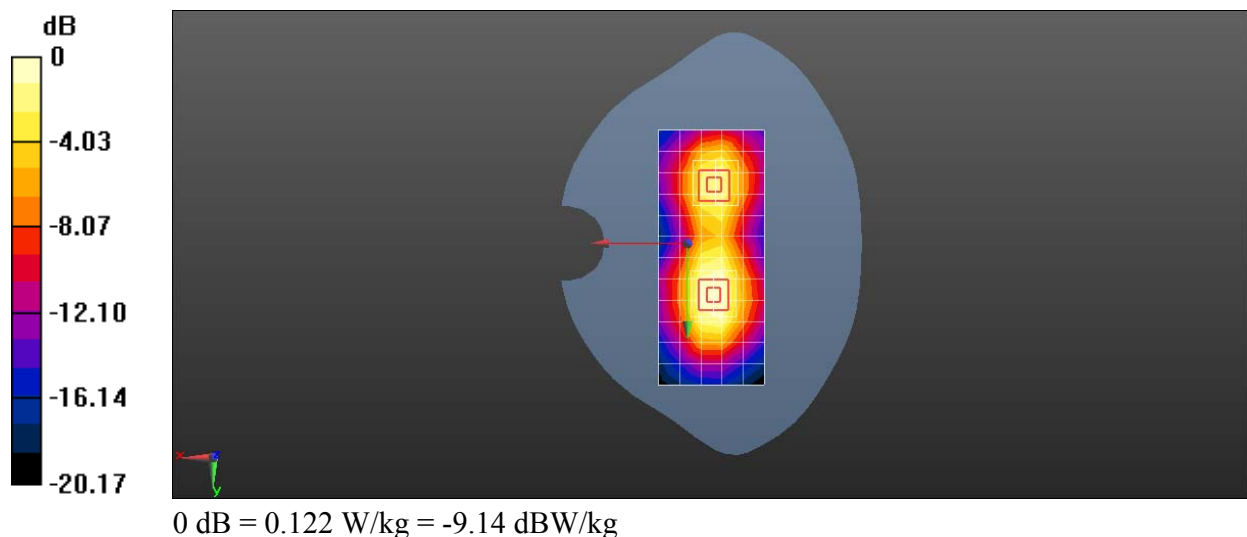
DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.122 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 5.804 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 0.200 W/kg  
**SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.071 W/kg**  
Maximum value of SAR (measured) = 0.148 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 5.804 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 0.143 W/kg  
**SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.050 W/kg**  
Maximum value of SAR (measured) = 0.106 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band II 9400CH Right touch with Battery2-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 39.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.33, 5.33, 5.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.599 W/kg

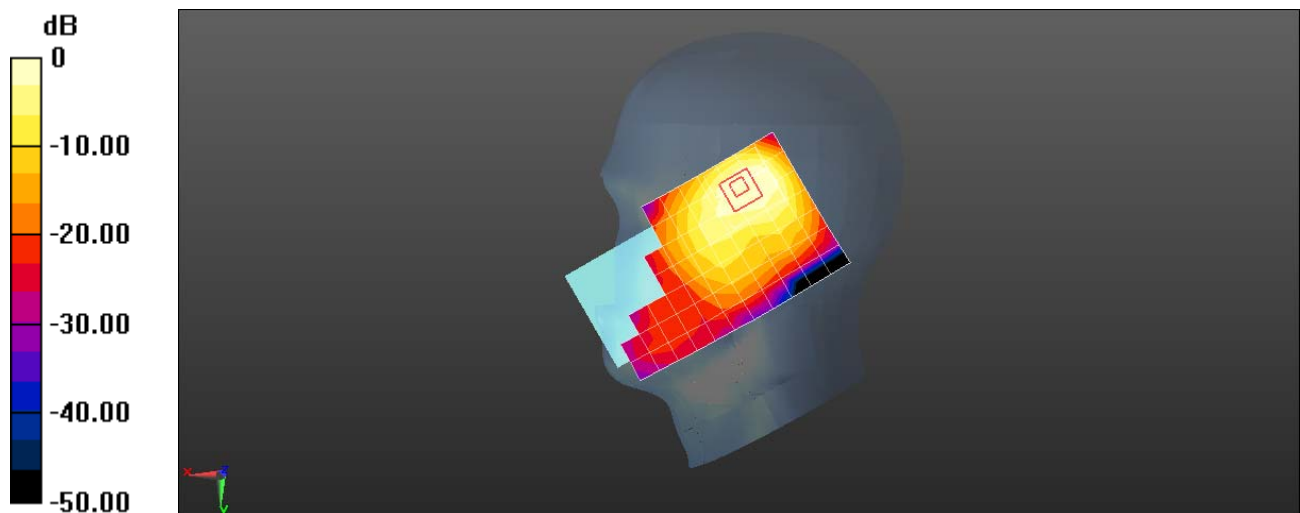
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.88 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.299 W/kg**

Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band II 9400CH Back side 15mm with Battery 2-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0487 W/kg

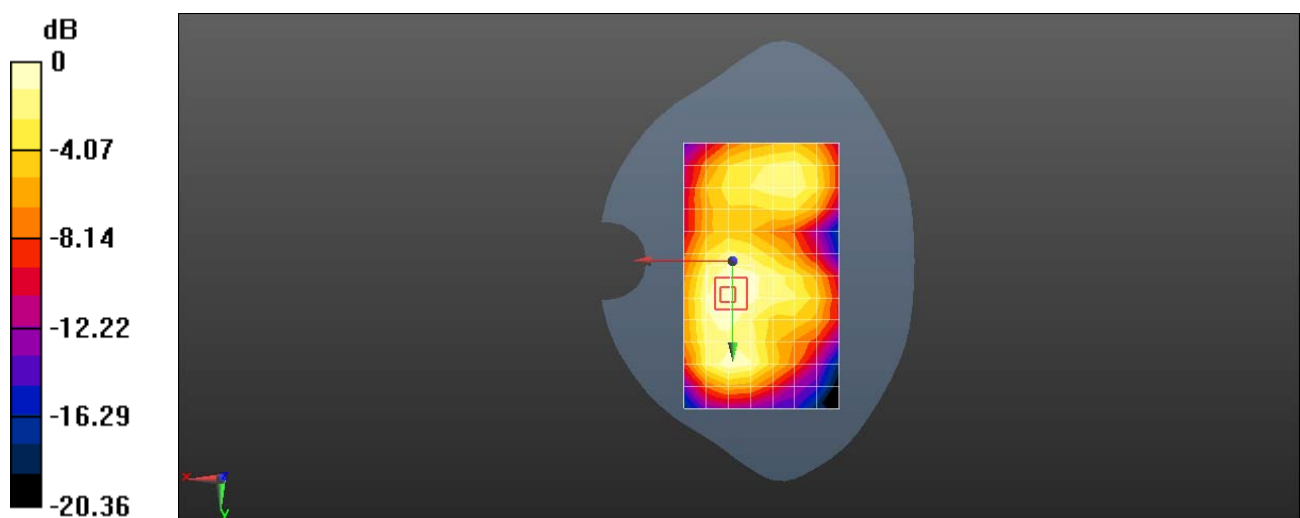
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.430 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.0640 W/kg

**SAR(1 g) = 0.042 W/kg; SAR(10 g) = 0.027 W/kg**

Maximum value of SAR (measured) = 0.0485 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band II 9400CH Left side 10mm with Battery2-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0358 W/kg

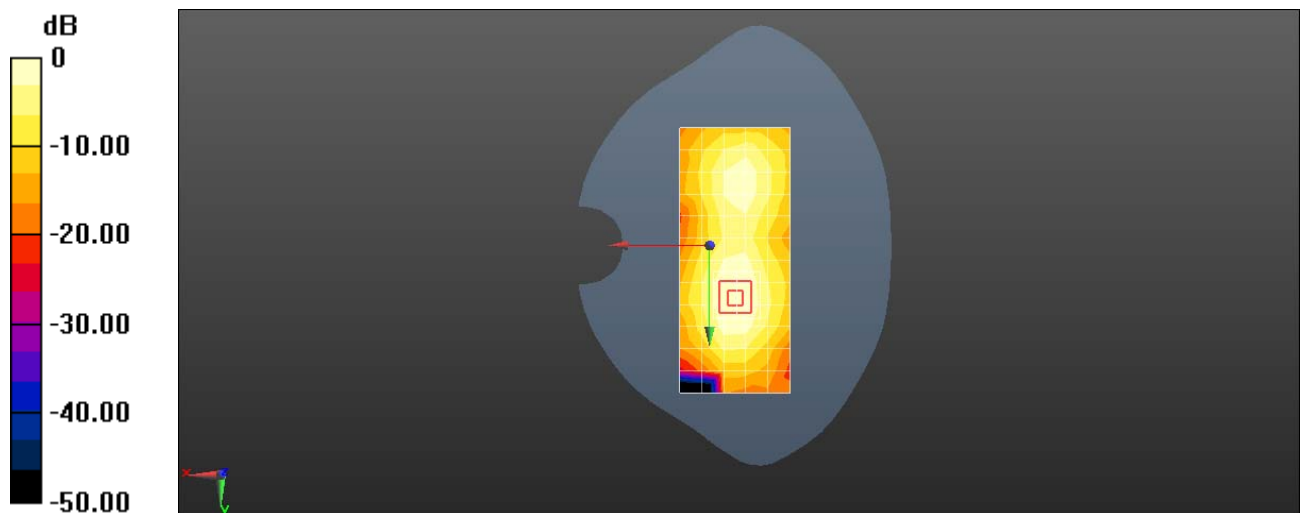
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.173 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.0600 W/kg

**SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.021 W/kg**

Maximum value of SAR (measured) = 0.0448 W/kg



0 dB = 0.0358 W/kg = -14.46 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band V 4233CH Right touch with Battery 2-Second Antenna-state 1**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.907$  S/m;  $\epsilon_r = 41.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.68, 6.68, 6.68); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.776 W/kg

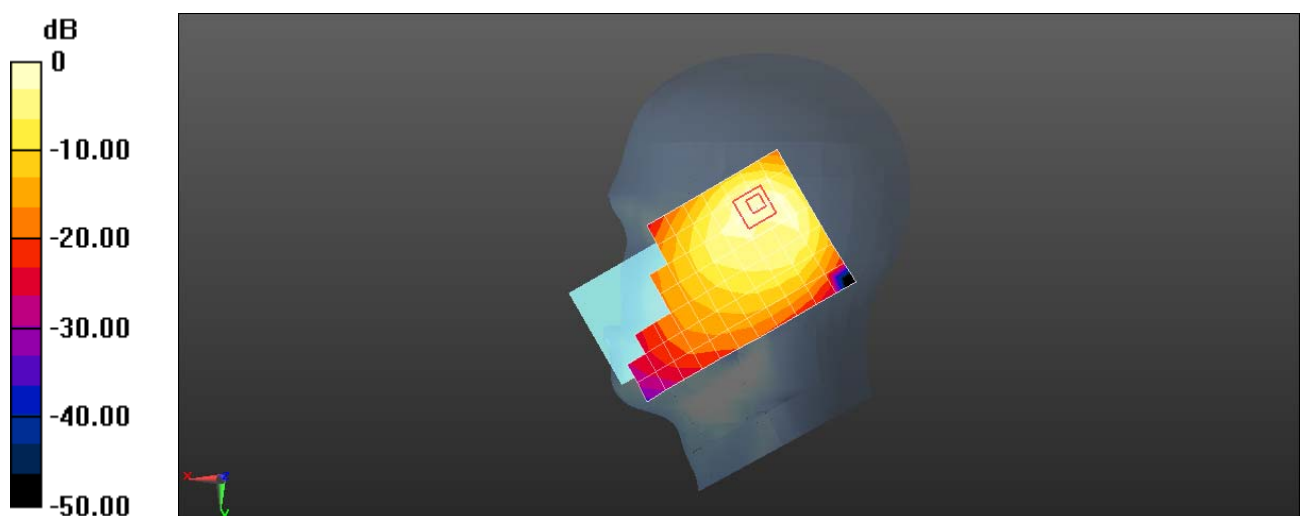
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.11 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.356 W/kg**

Maximum value of SAR (measured) = 0.840 W/kg



0 dB = 0.776 W/kg = -1.10 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band V 4182CH Back side 15mm-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0660 W/kg

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

Reference Value = 7.612 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.0950 W/kg

**SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.036 W/kg**

Maximum value of SAR (measured) = 0.0711 W/kg

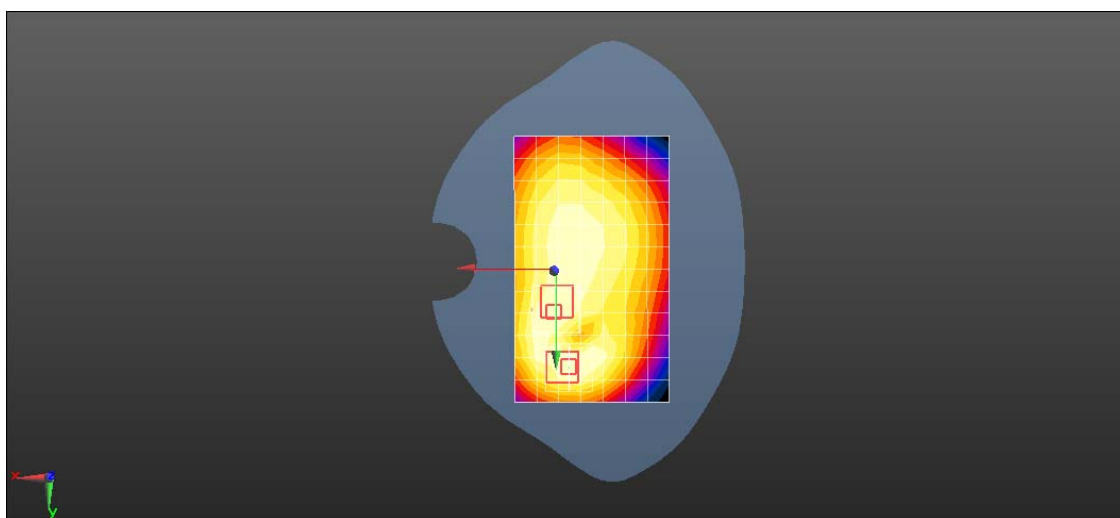
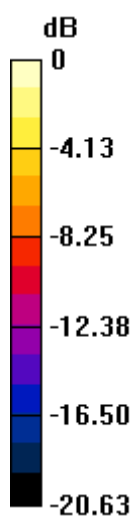
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.612 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.0810 W/kg

**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.042 W/kg**

Maximum value of SAR (measured) = 0.0658 W/kg



0 dB = 0.0660 W/kg = -11.80 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A UMTS Band V 4182CH Front side 10mm-Second Antenna-state 1

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.200 W/kg

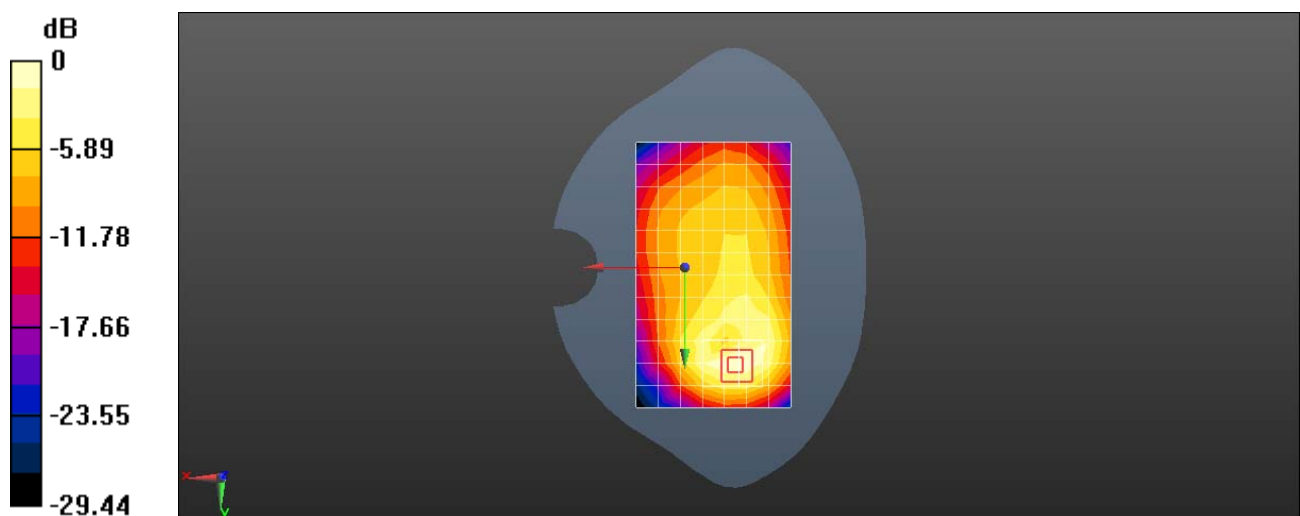
**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.118 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.296 W/kg

**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.090 W/kg**

Maximum value of SAR (measured) = 0.205 W/kg



0 dB = 0.200 W/kg = -6.99 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A LTE Band VII 20M QPSK 1RB 50 offset 21100CH Right touch-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.908$  S/m;  $\epsilon_r = 38.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.69, 4.69, 4.69); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.647 W/kg

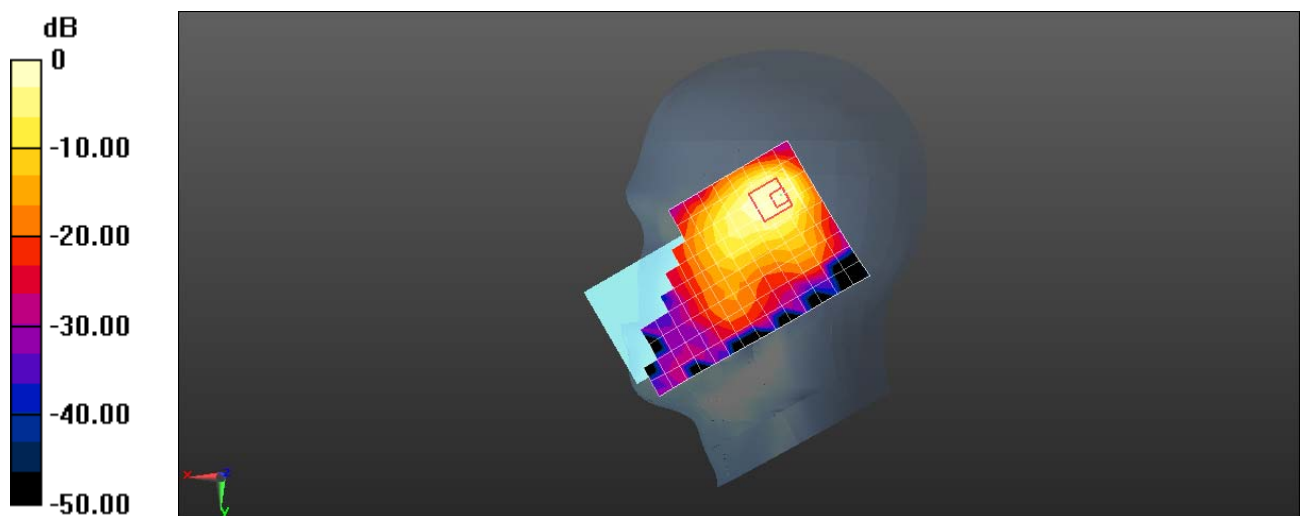
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 6.585 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.243 W/kg**

Maximum value of SAR (measured) = 0.712 W/kg



0 dB = 0.647 W/kg = -1.89 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A LTE Band VII 20M QPSK 1RB 50 offset 21100CH Back Side 15mm-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.128$  S/m;  $\epsilon_r = 52.238$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.31, 4.31, 4.31); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.0370 W/kg

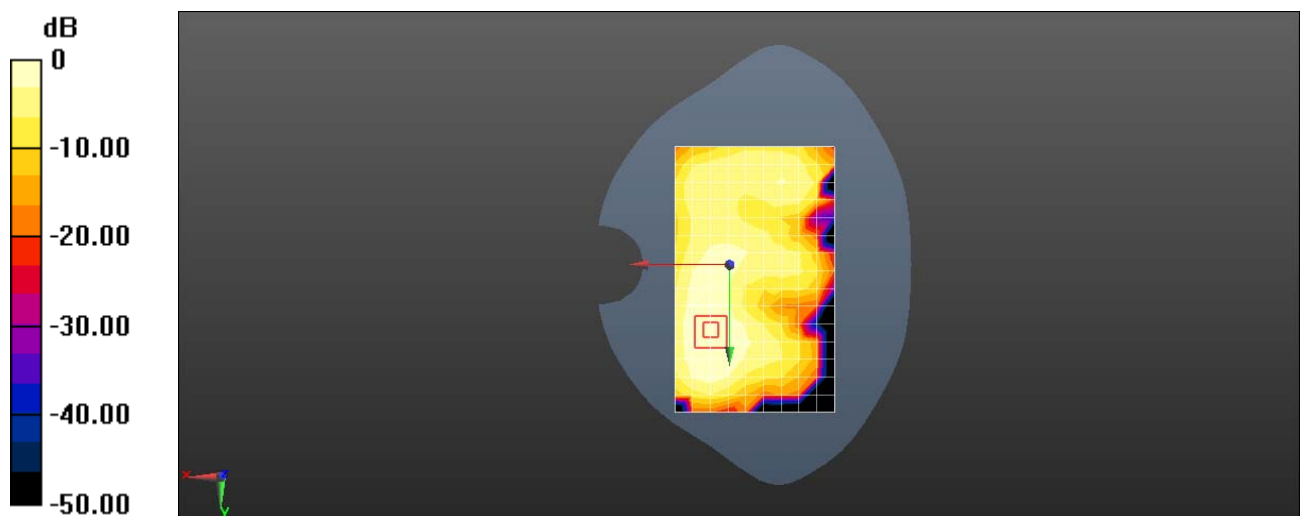
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.696 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0650 W/kg

**SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.016 W/kg**

Maximum value of SAR (measured) = 0.0401 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**WAS-LX1A LTE Band VII 20M QPSK 1RB 50 offset 21100CH Left Side 10mm-Second Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.128$  S/m;  $\epsilon_r = 52.238$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.31, 4.31, 4.31); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.102 W/kg

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

Reference Value = 7.119 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.172 W/kg

**SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.041 W/kg**

Maximum value of SAR (measured) = 0.108 W/kg

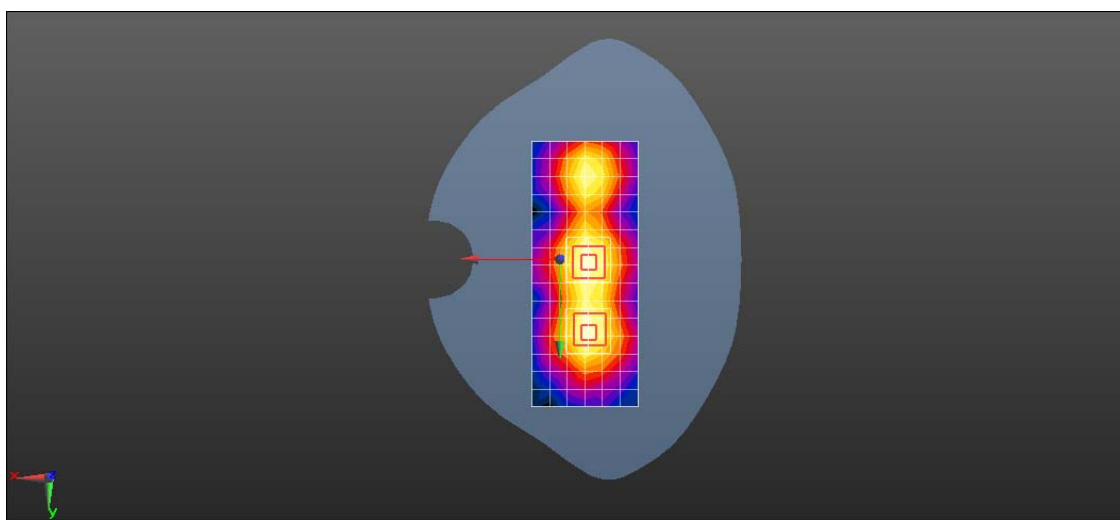
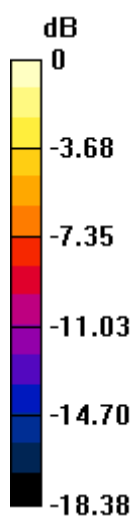
**Configuration/Body/Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 7.119 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.043 W/kg**

Maximum value of SAR (measured) = 0.106 W/kg



0 dB = 0.102 W/kg = -9.91 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A GSM850 251CH Right touch-Main Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.913$  S/m;  $\epsilon_r = 41.586$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.68, 6.68, 6.68); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.210 W/kg

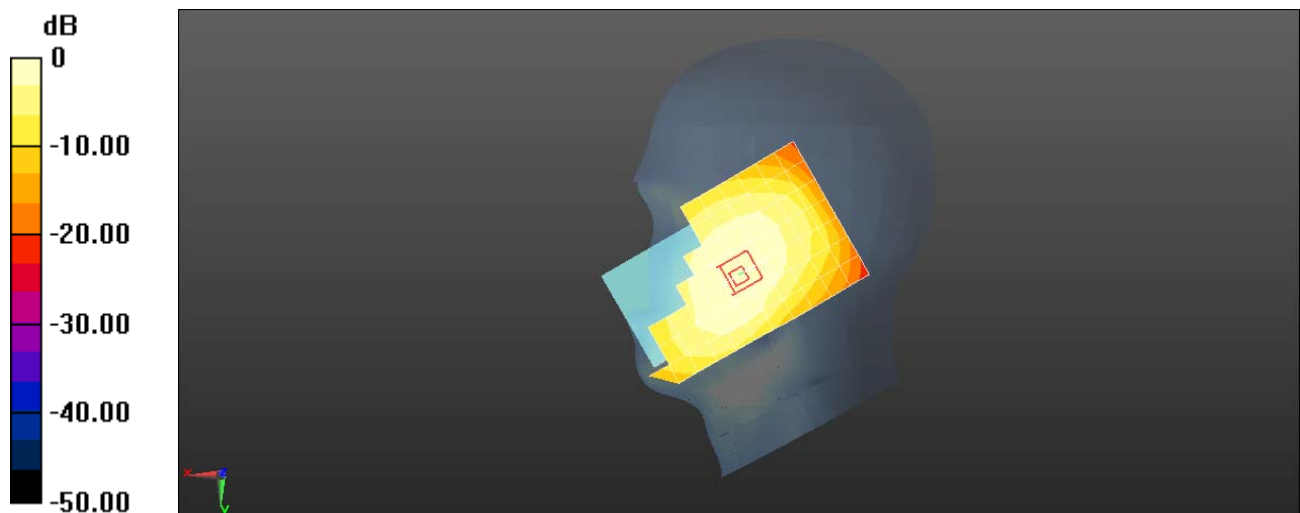
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.703 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.242 W/kg

**SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.148 W/kg**

Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.210 W/kg = -6.78 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM850 190CH Back side 15mm with Battery 2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = -8.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.264 W/kg

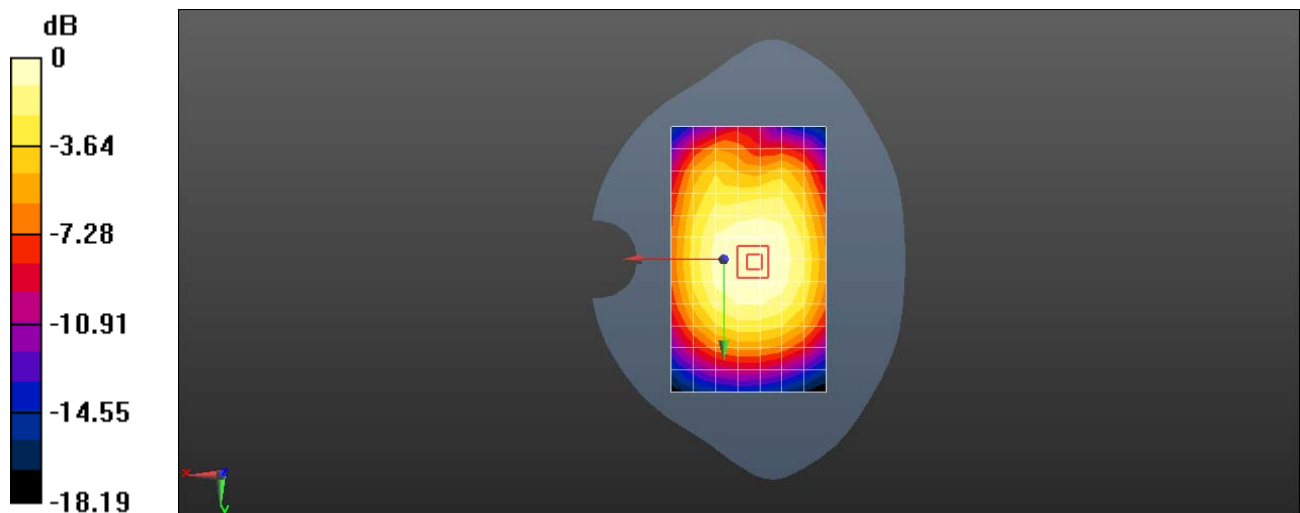
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.99 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.305 W/kg

**SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.191 W/kg**

Maximum value of SAR (measured) = 0.267 W/kg



0 dB = 0.264 W/kg = -5.78 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM850 GPRS 2Ts 190CH Front side 10mm with Battery2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = -8.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.246 W/kg

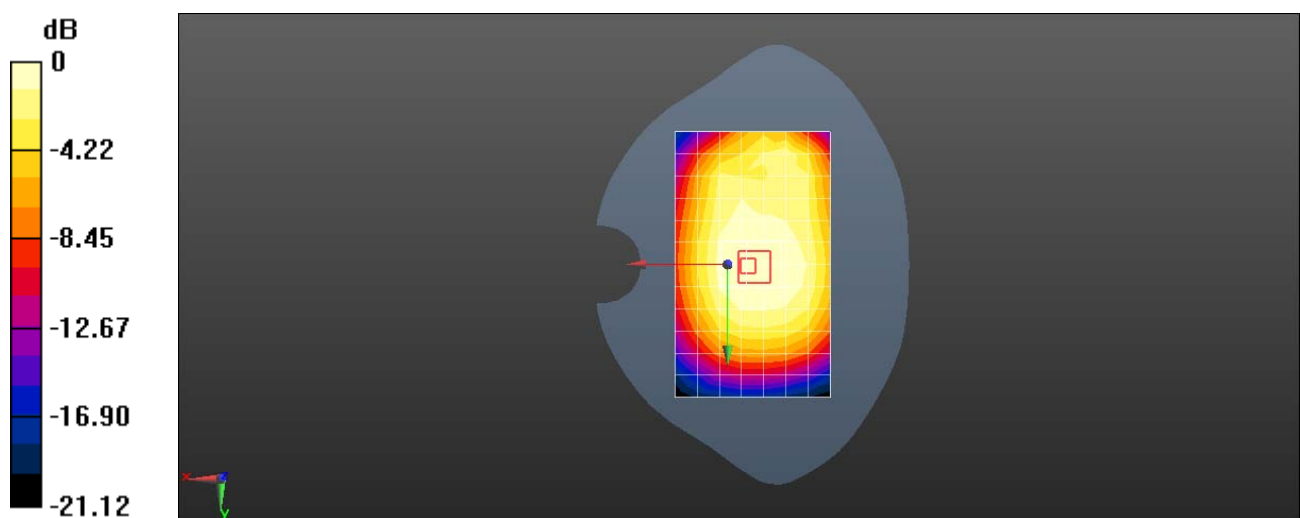
**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.25 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.279 W/kg

**SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.175 W/kg**

Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.246 W/kg = -6.09 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A GSM1900 661CH Left touch-Main Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 39.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.33, 5.33, 5.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.118 W/kg

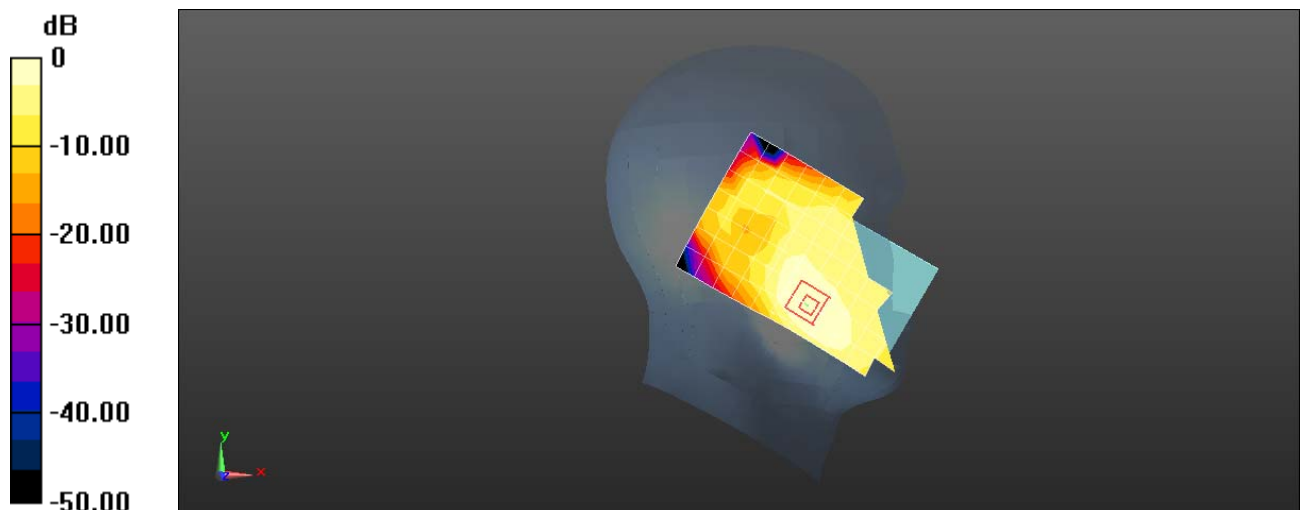
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.583 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.183 W/kg

**SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.075 W/kg**

Maximum value of SAR (measured) = 0.143 W/kg



0 dB = 0.118 W/kg = -9.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM1900 661CH Back side 15mm with Battery 2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.357 W/kg

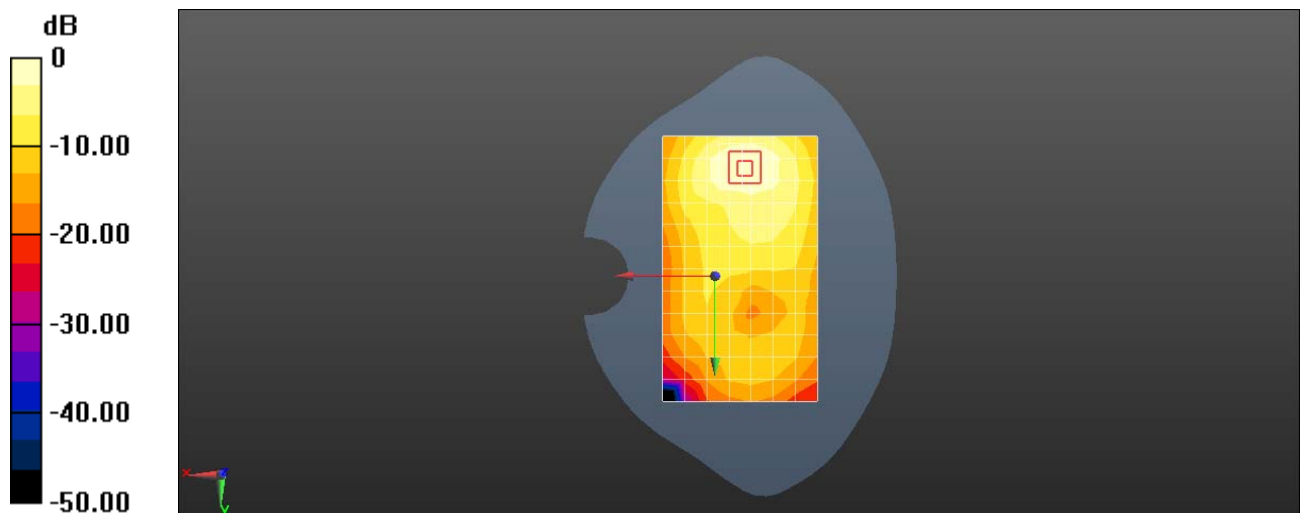
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.666 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.584 W/kg

**SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.217 W/kg**

Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.357 W/kg = -4.47 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A GSM1900 GPRS 2Ts 661CH Bottom side 10mm-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.366 W/kg

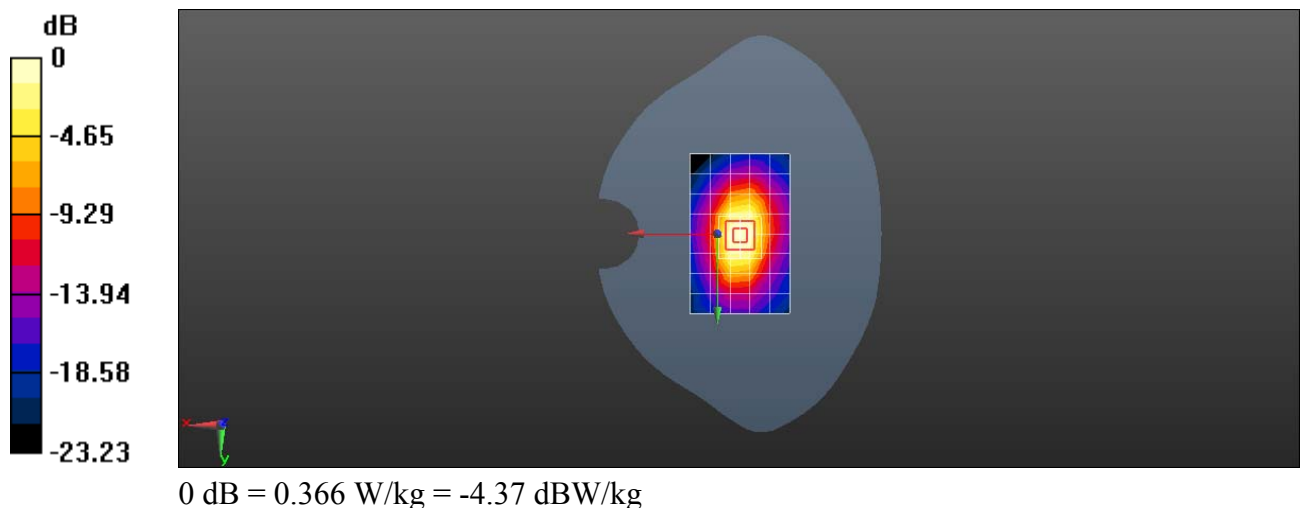
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 19.12 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.736 W/kg

**SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.223 W/kg**

Maximum value of SAR (measured) = 0.533 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A UMTS Band II 9400CH Left touch with Battery2-Main Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 39.405$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.33, 5.33, 5.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.166 W/kg

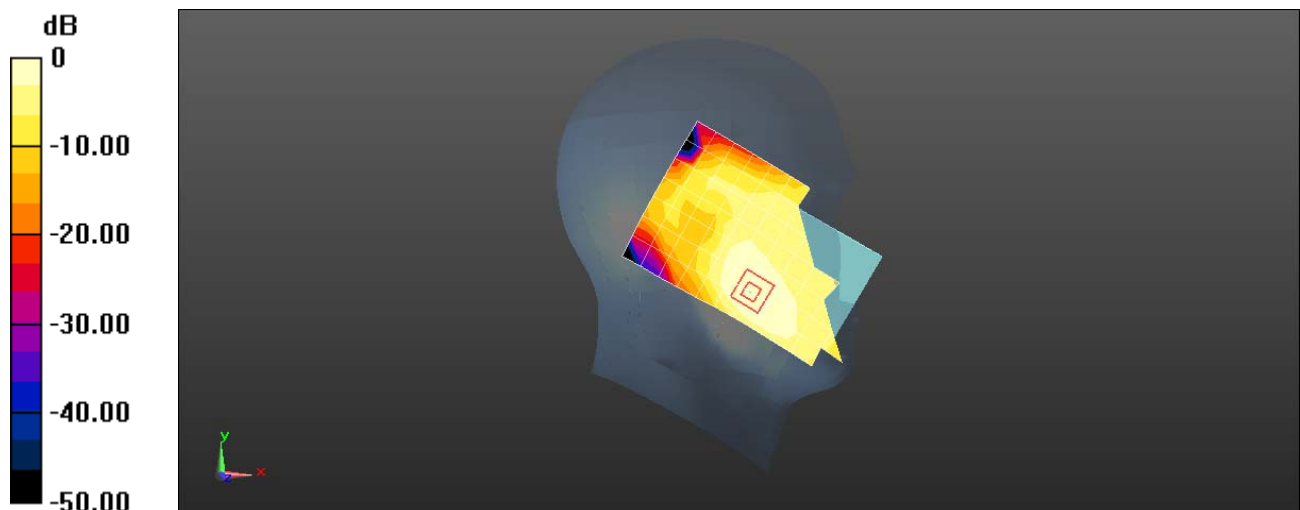
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.444 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.246 W/kg

**SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.104 W/kg**

Maximum value of SAR (measured) = 0.192 W/kg



0 dB = 0.166 W/kg = -7.80 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band II 9400CH Back side 15mm with Battery2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.656 W/kg

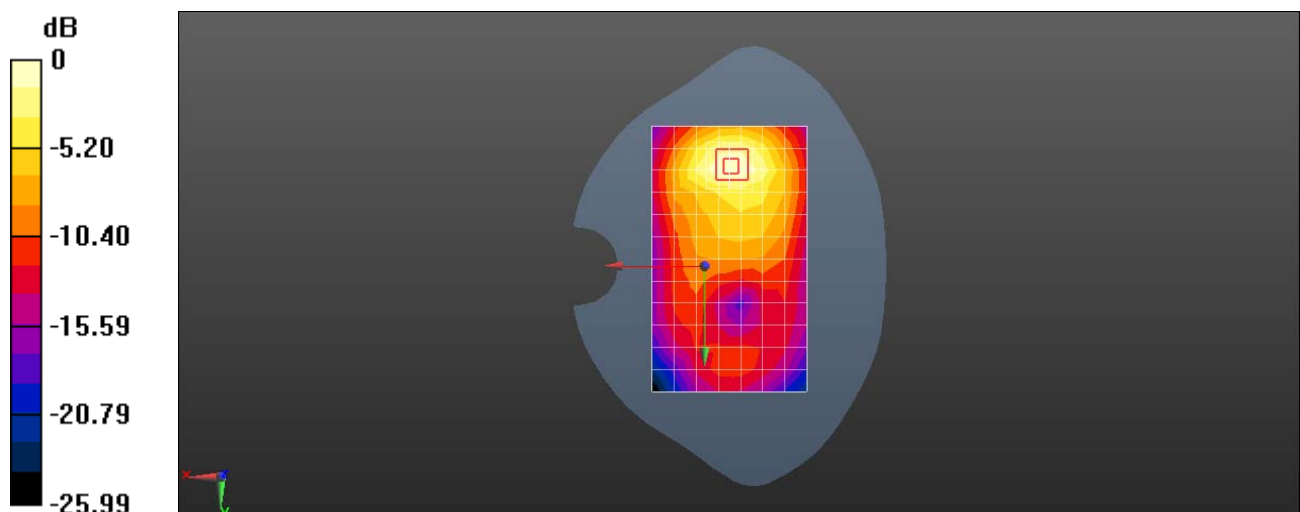
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.072 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.958 W/kg

**SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.354 W/kg**

Maximum value of SAR (measured) = 0.730 W/kg



0 dB = 0.656 W/kg = -1.83 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A UMTS Band II 9400CH Bottom side 10mm with Battery2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.563$  S/m;  $\epsilon_r = 52.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (6x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.435 W/kg

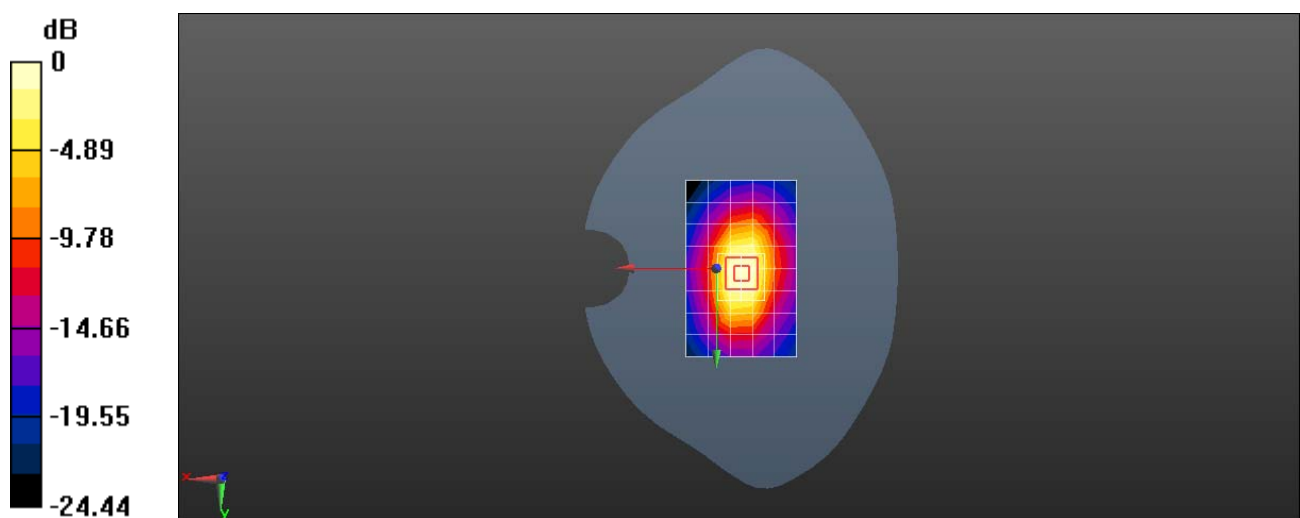
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 20.59 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.878 W/kg

**SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.268 W/kg**

Maximum value of SAR (measured) = 0.634 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A UMTS Band V 4233CH Right touch-Main Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.907$  S/m;  $\epsilon_r = 41.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.68, 6.68, 6.68); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.215 W/kg

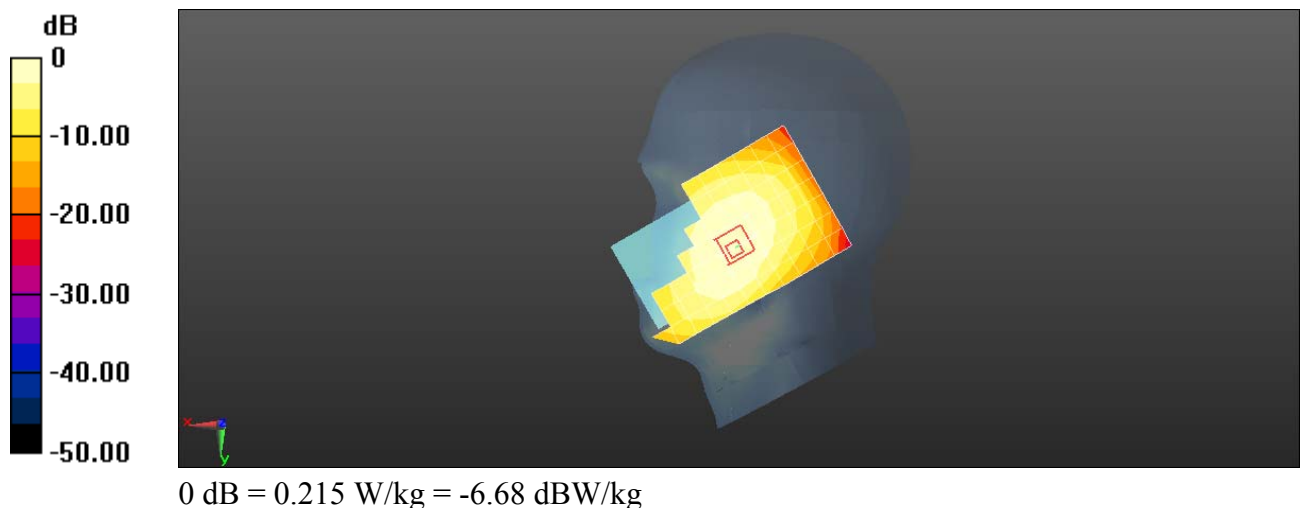
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.065 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.247 W/kg

**SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.153 W/kg**

Maximum value of SAR (measured) = 0.217 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A UMTS Band V 4182CH Back side 15mm-Main Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.249 W/kg

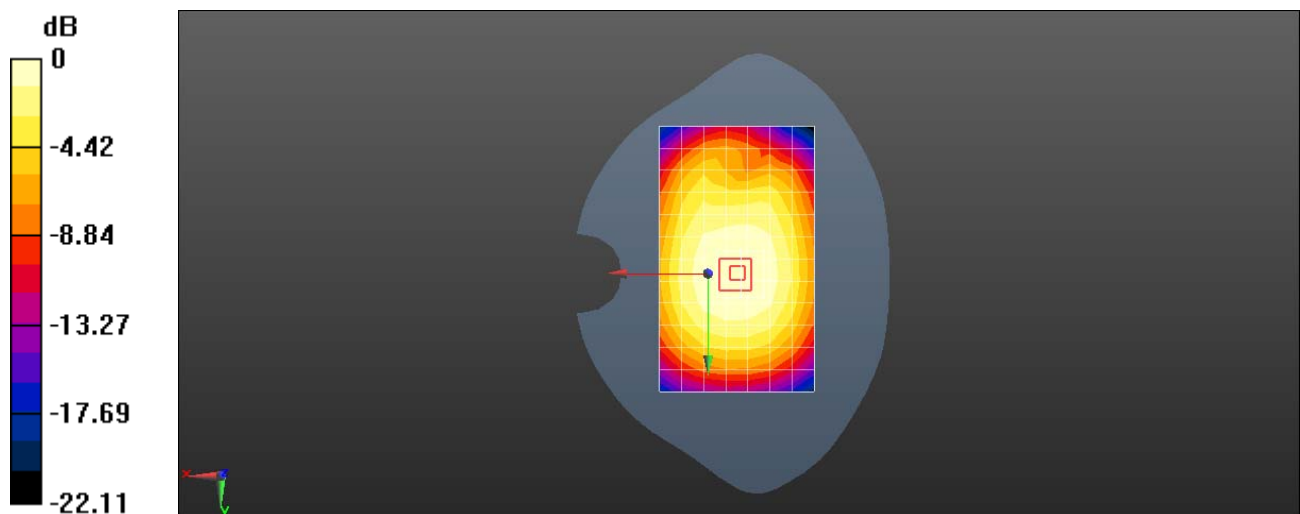
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.60 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.287 W/kg

**SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.177 W/kg**

Maximum value of SAR (measured) = 0.251 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A UMTS Band V 4182CH Right side 10mm-Main Antenna

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 55.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.33, 6.33, 6.33); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (6x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.305 W/kg

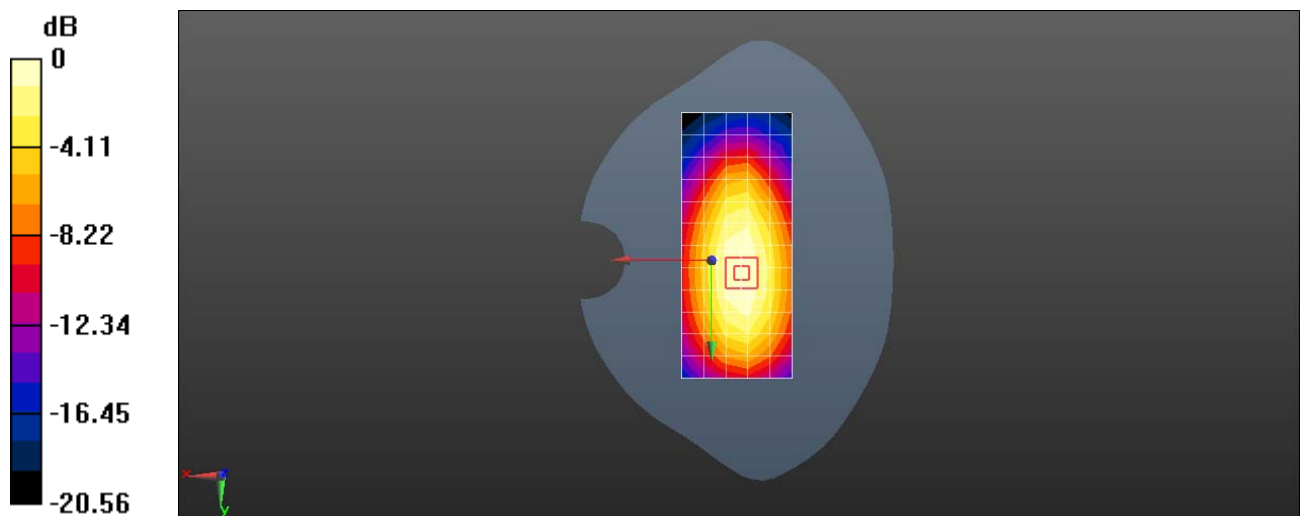
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.42 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.401 W/kg

**SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 0.325 W/kg



0 dB = 0.305 W/kg = -5.16 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A LTE Band VII 20M QPSK 1RB 50 offset 20850CH Right touch with Battery2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.88$  S/m;  $\epsilon_r = 38.767$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.69, 4.69, 4.69); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.119 W/kg

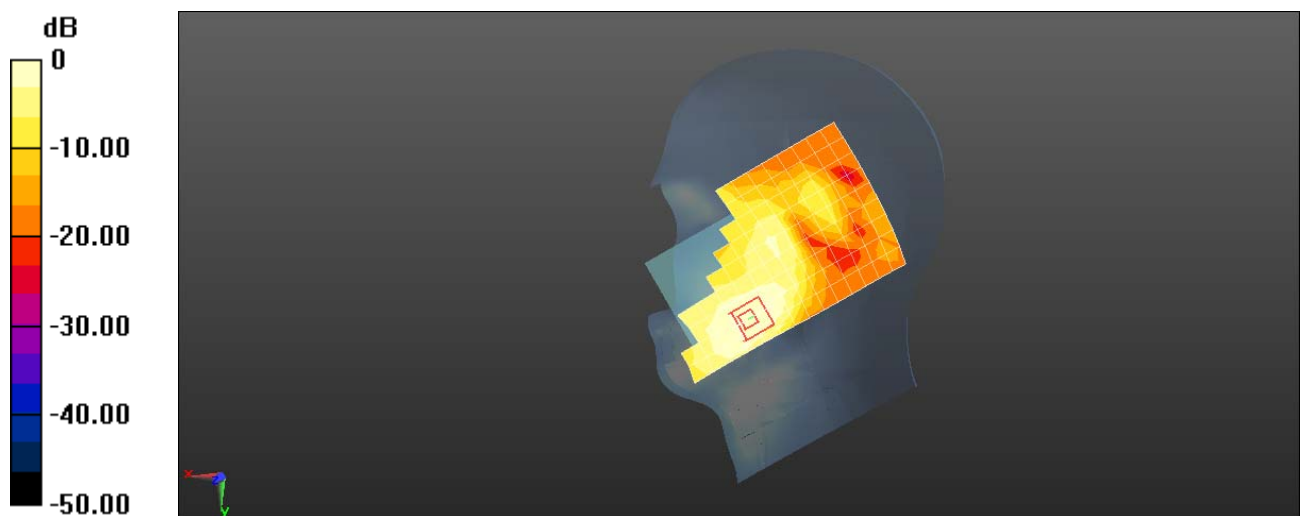
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.798 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.177 W/kg

**SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.054 W/kg**

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.119 W/kg = -9.24 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**WAS-LX1A LTE Band VII 20M QPSK 1RB 50 offset 21100CH Front Side 15mm-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535 \text{ MHz}$ ;  $\sigma = 2.128 \text{ S/m}$ ;  $\epsilon_r = 52.238$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.31, 4.31, 4.31); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (10x16x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) =  $0.397 \text{ W/kg}$

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

Reference Value =  $2.292 \text{ V/m}$ ; Power Drift =  $0.14 \text{ dB}$

Peak SAR (extrapolated) =  $0.626 \text{ W/kg}$

**SAR(1 g) =  $0.336 \text{ W/kg}$ ; SAR(10 g) =  $0.191 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.413 \text{ W/kg}$

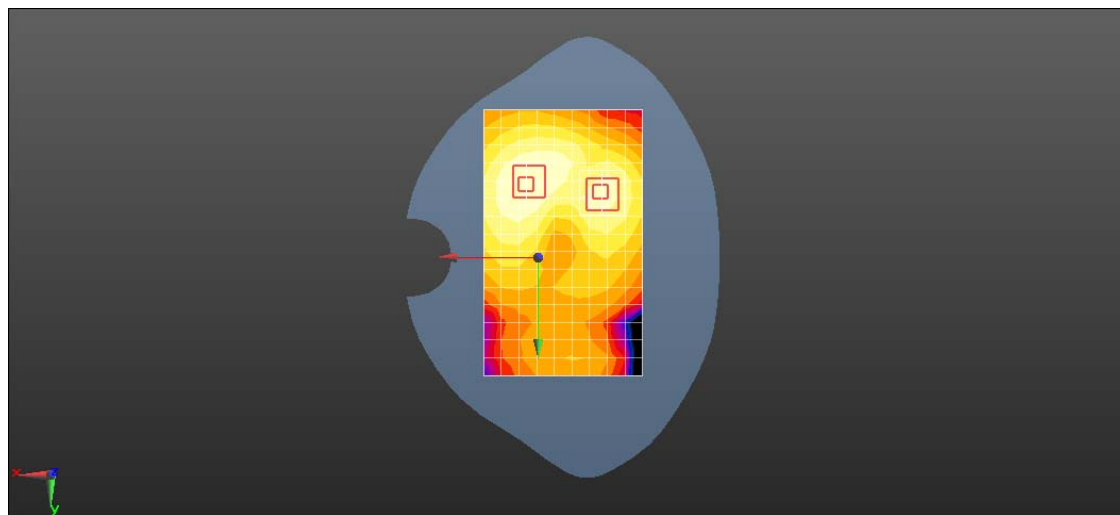
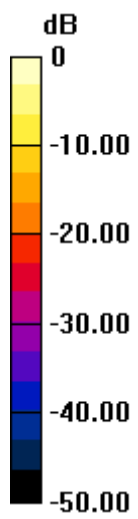
**Configuration/Body/Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $2.292 \text{ V/m}$ ; Power Drift =  $0.14 \text{ dB}$

Peak SAR (extrapolated) =  $0.505 \text{ W/kg}$

**SAR(1 g) =  $0.256 \text{ W/kg}$ ; SAR(10 g) =  $0.129 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.322 \text{ W/kg}$



0 dB = 0.397 W/kg = -4.01 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**WAS-LX1A LTE Band VII 20M QPSK 1RB 50 offset 21100CH Bottom Side 10mm with Battery2-Main Antenna**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535 \text{ MHz}$ ;  $\sigma = 2.128 \text{ S/m}$ ;  $\epsilon_r = 52.238$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.31, 4.31, 4.31); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) =  $0.656 \text{ W/kg}$

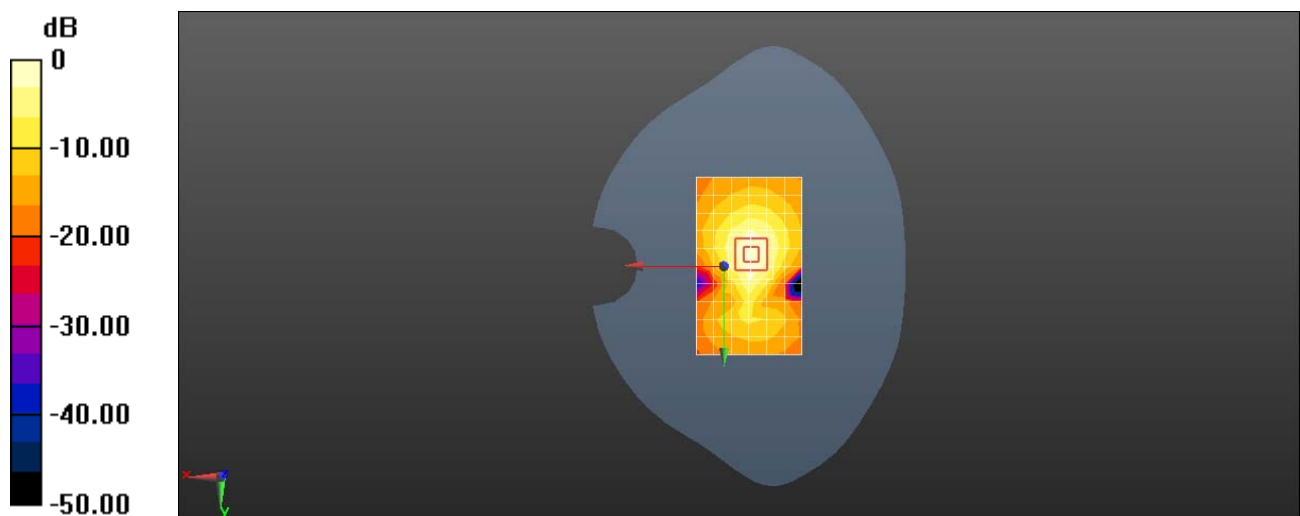
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $17.05 \text{ V/m}$ ; Power Drift =  $0.11 \text{ dB}$

Peak SAR (extrapolated) =  $1.11 \text{ W/kg}$

**SAR(1 g) =  $0.557 \text{ W/kg}$ ; SAR(10 g) =  $0.269 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.720 \text{ W/kg}$



0 dB =  $0.656 \text{ W/kg} = -1.83 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A WIFI 2.4GH 11b 6CH Left Touch with Battery 2

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.82 \text{ S/m}$ ;  $\epsilon_r = 40.461$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.73, 4.73, 4.73); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$   
Maximum value of SAR (measured) =  $0.914 \text{ W/kg}$

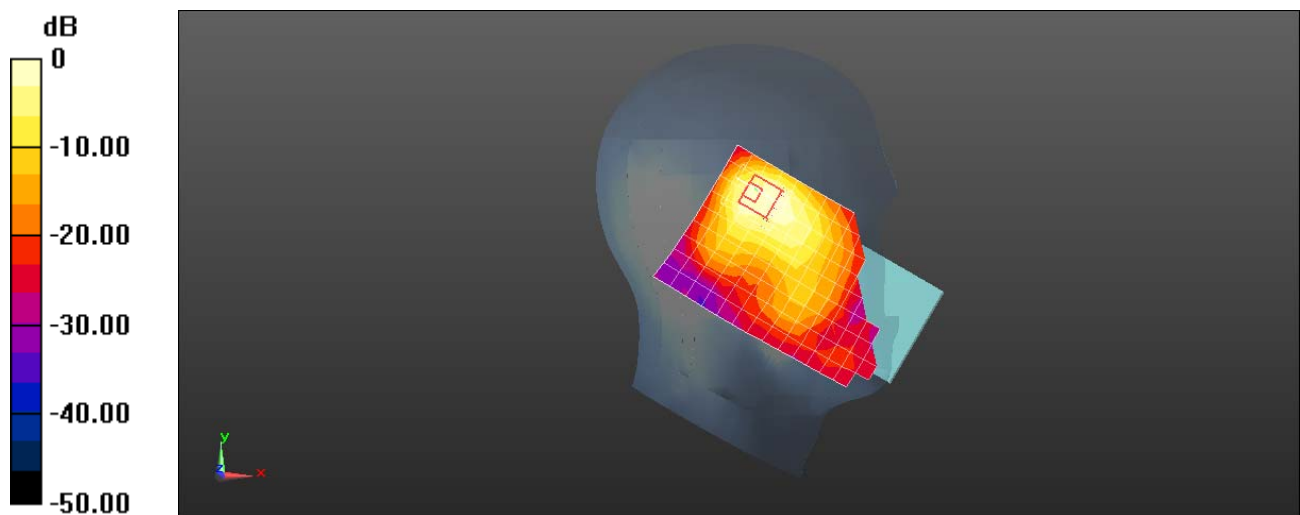
**Configuration/Head/Zoom Scan (7x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $8.710 \text{ V/m}$ ; Power Drift =  $0.17 \text{ dB}$

Peak SAR (extrapolated) =  $1.79 \text{ W/kg}$

**SAR(1 g) =  $0.730 \text{ W/kg}$ ; SAR(10 g) =  $0.346 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.987 \text{ W/kg}$



$0 \text{ dB} = 0.914 \text{ W/kg} = -0.39 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A wifi2.4G 802.11b 11CH Back Side 15mm with Battery2**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.015$  S/m;  $\epsilon_r = 52.624$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.57, 4.57, 4.57); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.0702 W/kg

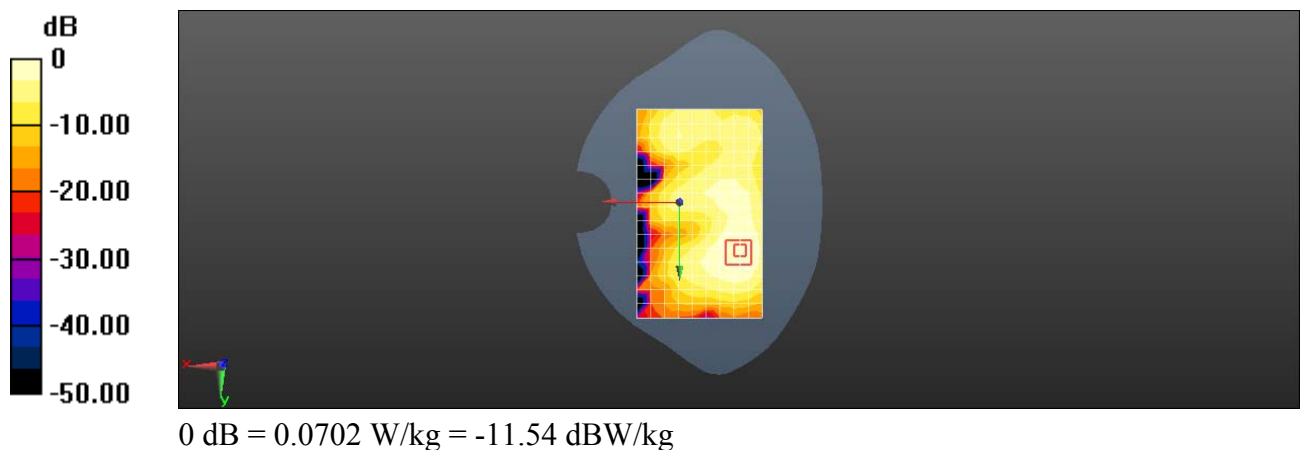
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.955 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.108 W/kg

**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.033 W/kg**

Maximum value of SAR (measured) = 0.0712 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A wifi2.4G 802.11b 11CH Back Side 10mm with Battery2**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.015$  S/m;  $\epsilon_r = 52.624$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.57, 4.57, 4.57); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.145 W/kg

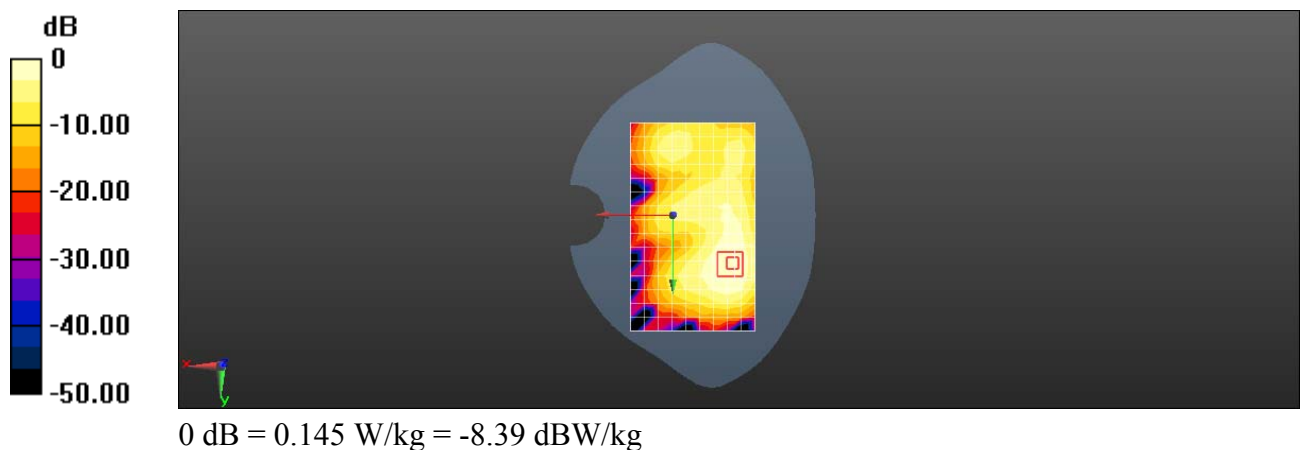
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.981 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.228 W/kg

**SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.150 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A WIFI 5G 11a 56CH Left touch

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5280 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.74$  S/m;  $\epsilon_r = 35.312$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(4.57, 4.57, 4.57); Calibrated: 2016-4-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (11x18x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.587 W/kg

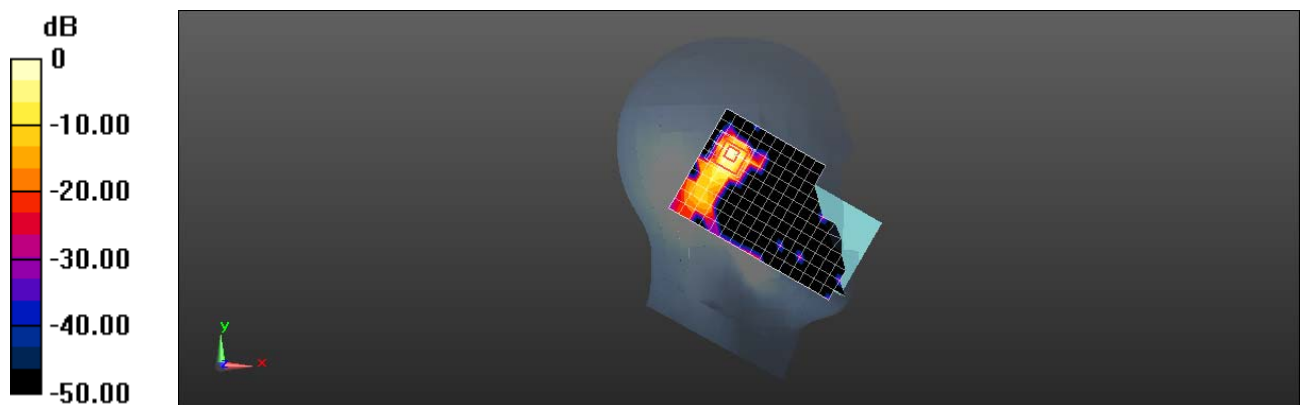
**Configuration/Head/Zoom Scan (8x9x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 3.969 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.063 W/kg**

Maximum value of SAR (measured) = 0.933 W/kg



0 dB = 0.587 W/kg = -2.31 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## WAS-LX1A WIFI 5G 11a 112CH Back Side 15mm with Battery 2

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5560 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5560 \text{ MHz}$ ;  $\sigma = 5.815 \text{ S/m}$ ;  $\epsilon_r = 49.38$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(3.48, 3.48, 3.48); Calibrated: 2016-4-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $0.0583 \text{ W/kg}$

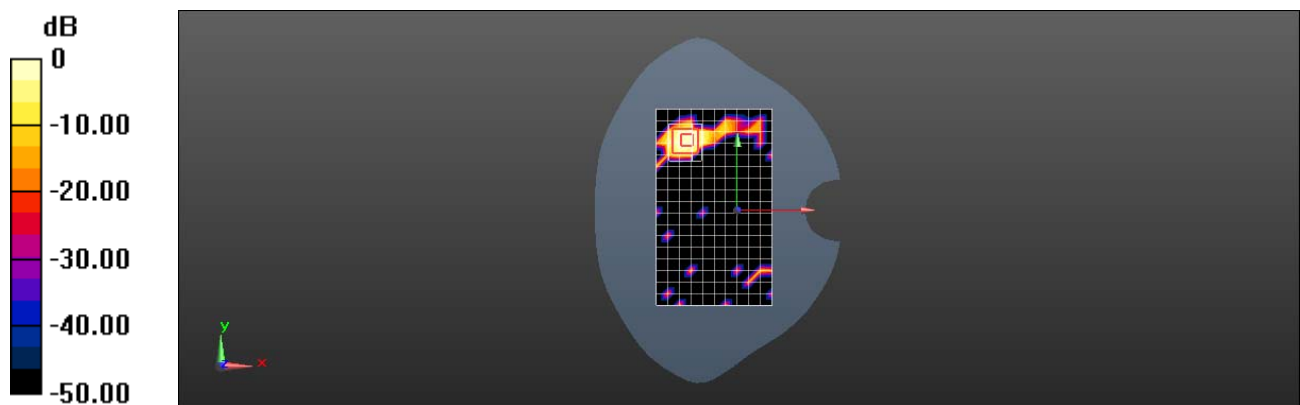
**Configuration/Body/Zoom Scan (8x9x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  
 $dz=1.4\text{mm}$

Reference Value =  $0.1210 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.177 \text{ W/kg}$

**SAR(1 g) =  $0.028 \text{ W/kg}$ ; SAR(10 g) =  $0.0071 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.0856 \text{ W/kg}$



0 dB =  $0.0583 \text{ W/kg}$  =  $-12.34 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

## **WAS-LX1A WIFI 5G 11a 40CH Back Side 10mm with Battery2**

**DUT: WAS-LX1A; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5200 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.195 \text{ S/m}$ ;  $\epsilon_r = 49.961$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(3.92, 3.92, 3.92); Calibrated: 2016-4-26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2016-4-20
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1258); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $0.0745 \text{ W/kg}$

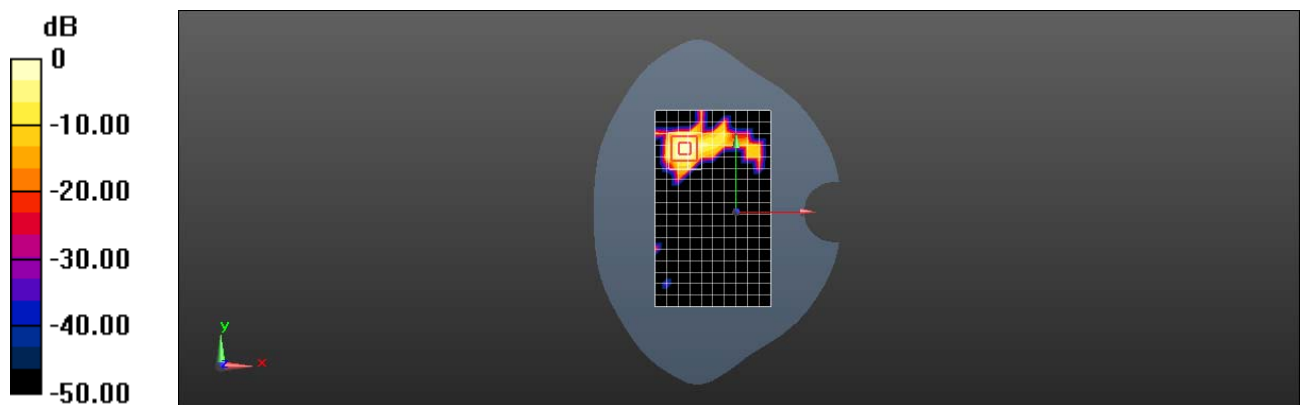
**Configuration/Body/Zoom Scan (8x9x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  
 $dz=1.4\text{mm}$

Reference Value =  $0.1690 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.159 \text{ W/kg}$

**SAR(1 g) =  $0.027 \text{ W/kg}$ ; SAR(10 g) =  $0.00716 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.0805 \text{ W/kg}$



0 dB =  $0.0745 \text{ W/kg}$  =  $-11.28 \text{ dBW/kg}$