

**Appendix B. SAR Measurement Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 GSM850 190CH Left Cheek

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

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;  $\sigma = 0.929$  S/m;  $\epsilon_r = 42.136$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(10.3, 10.3, 10.3) @ 836.6 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.207 W/kg

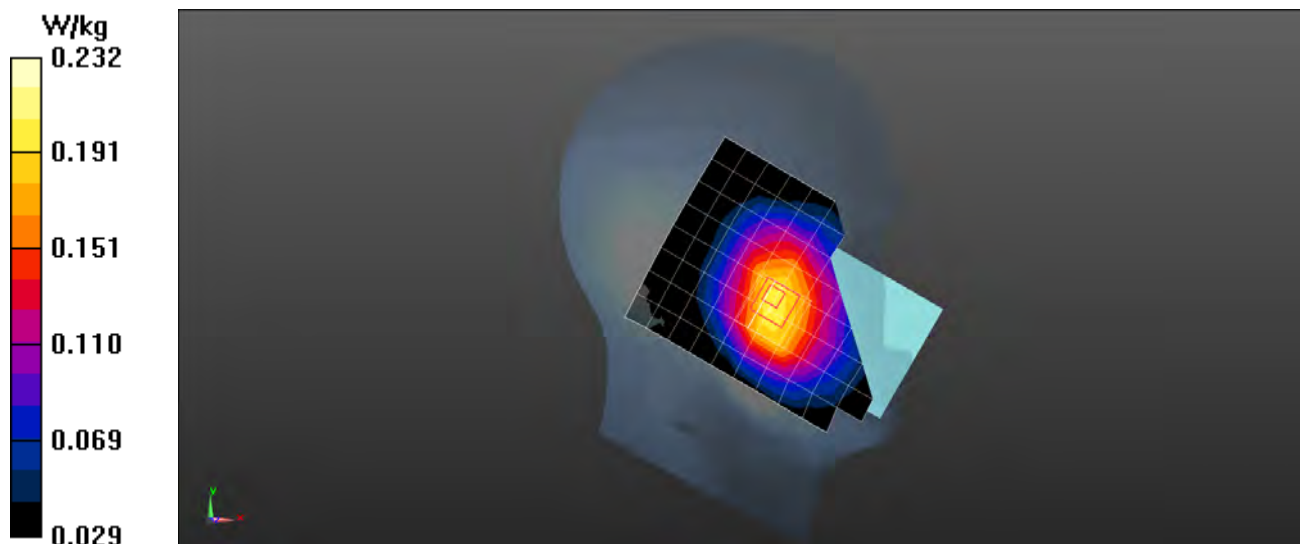
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.360 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.254 W/kg

**SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.143 W/kg**

Maximum value of SAR (measured) = 0.232 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 GSM850 190CH Back Side 15mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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;  $\sigma = 0.991$  S/m;  $\epsilon_r = 53.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.73, 9.73, 9.73) @ 836.6 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.353 W/kg

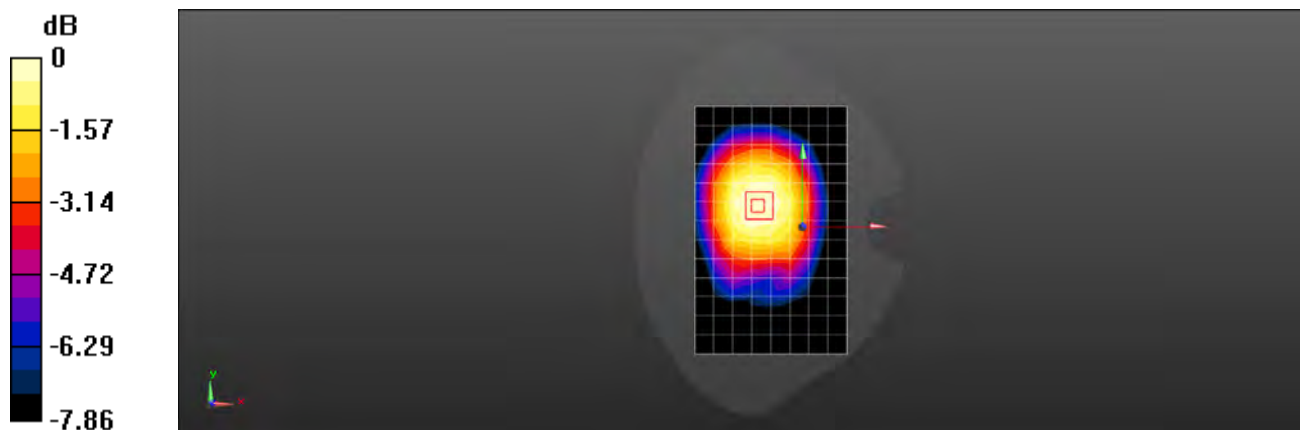
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.61 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.361 W/kg

**SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.222 W/kg**

Maximum value of SAR (measured) = 0.340 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 GSM850 GPRS 2TS 190CH Back Side 10mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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;  $\sigma = 0.991$  S/m;  $\epsilon_r = 53.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.73, 9.73, 9.73) @ 836.6 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.386 W/kg

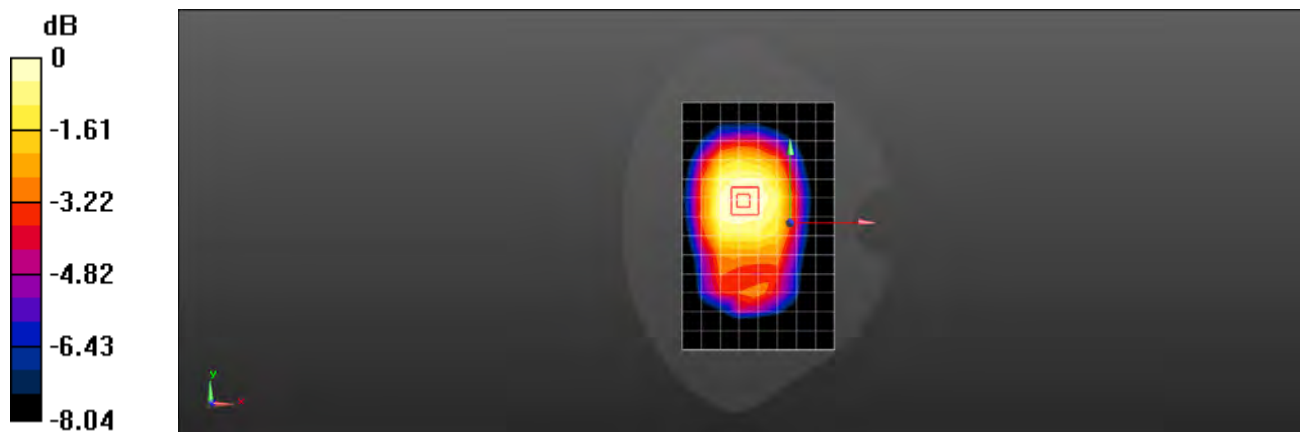
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.86 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.392 W/kg

**SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.244 W/kg**

Maximum value of SAR (measured) = 0.369 W/kg



0 dB = 0.369 W/kg = -4.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 GSM1900 661CH Left Cheek with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  S/m;  $\epsilon_r = 39.773$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.32, 8.32, 8.32) @ 1880 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.247 W/kg

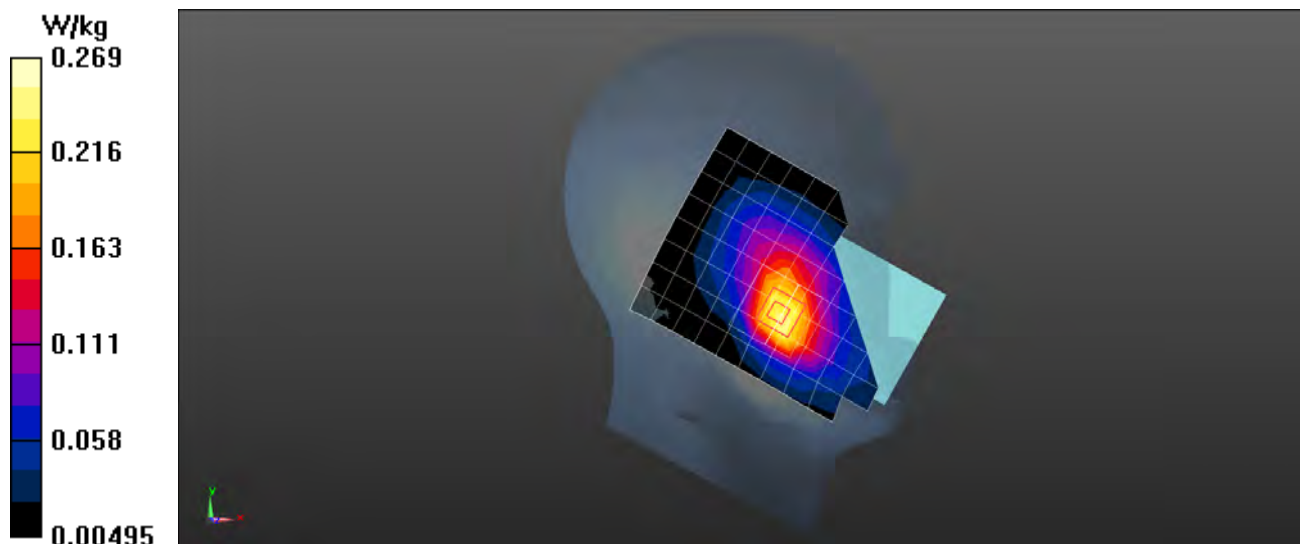
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.849 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.305 W/kg

**SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.132 W/kg**

Maximum value of SAR (measured) = 0.269 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 GSM1900 661CH Back Side 15mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.564$  S/m;  $\epsilon_r = 51.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.87, 7.87, 7.87) @ 1880 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

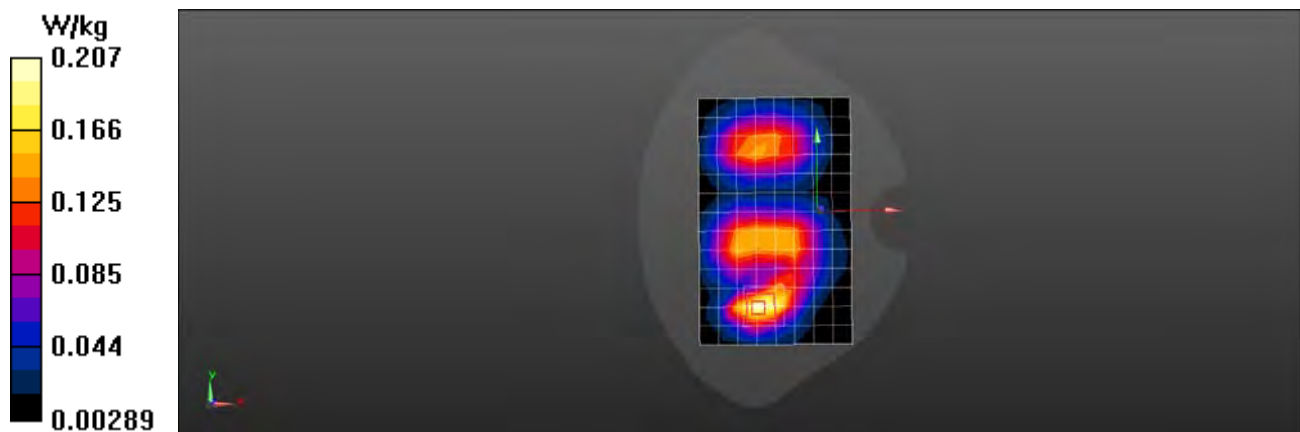
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.151 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.229 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.094 W/kg**

Maximum value of SAR (measured) = 0.207 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 GSM1900 GPRS 2TS 661CH Back Side 10mm with SIM2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.564$  S/m;  $\epsilon_r = 51.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.87, 7.87, 7.87) @ 1880 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.341 W/kg

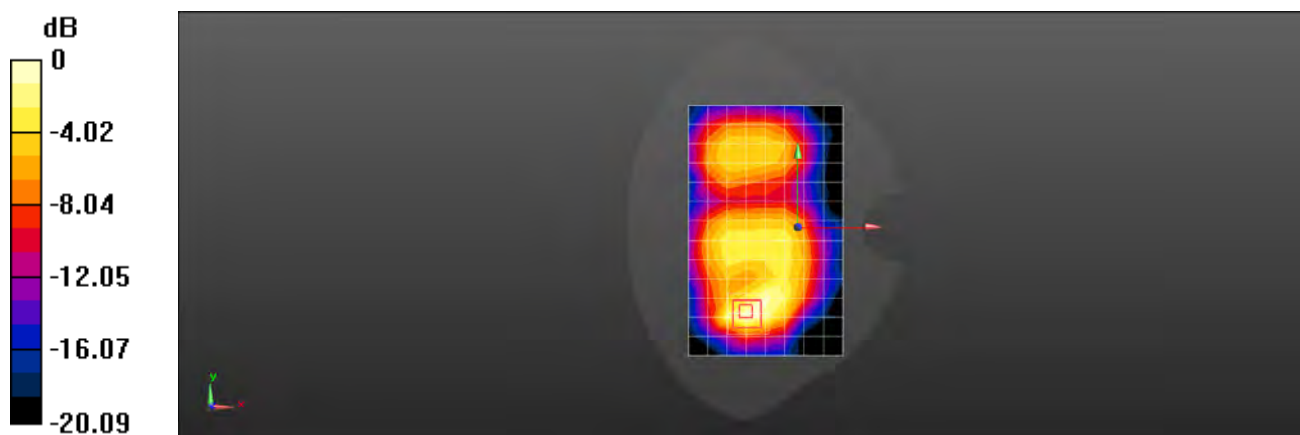
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.925 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.380 W/kg

**SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.141 W/kg**

Maximum value of SAR (measured) = 0.350 W/kg



0 dB = 0.350 W/kg = -4.56 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band II 9400CH Left Cheek

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  S/m;  $\epsilon_r = 39.773$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.32, 8.32, 8.32) @ 1880 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.378 W/kg

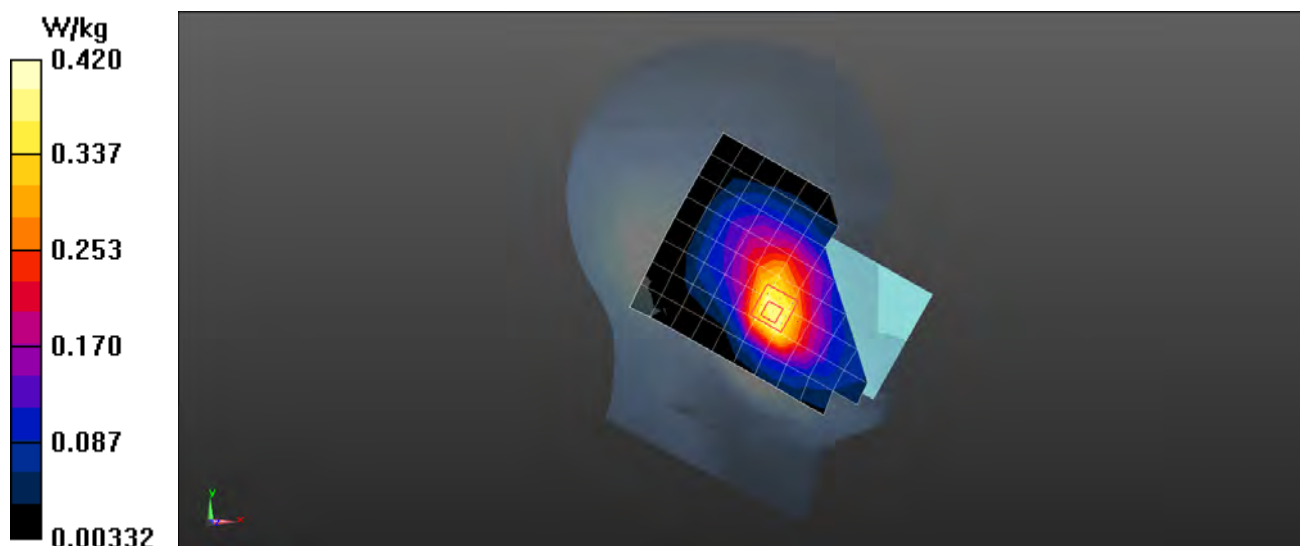
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.314 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.473 W/kg

**SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.209 W/kg**

Maximum value of SAR (measured) = 0.420 W/kg





Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band II 9400CH Front Side 15mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.564$  S/m;  $\epsilon_r = 51.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.87, 7.87, 7.87) @ 1880 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.287 W/kg

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

Reference Value = 12.30 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.291 W/kg

**SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.141 W/kg**

Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band II 9400CH Back Side 10mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.564$  S/m;  $\epsilon_r = 51.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.87, 7.87, 7.87) @ 1880 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.354 W/kg

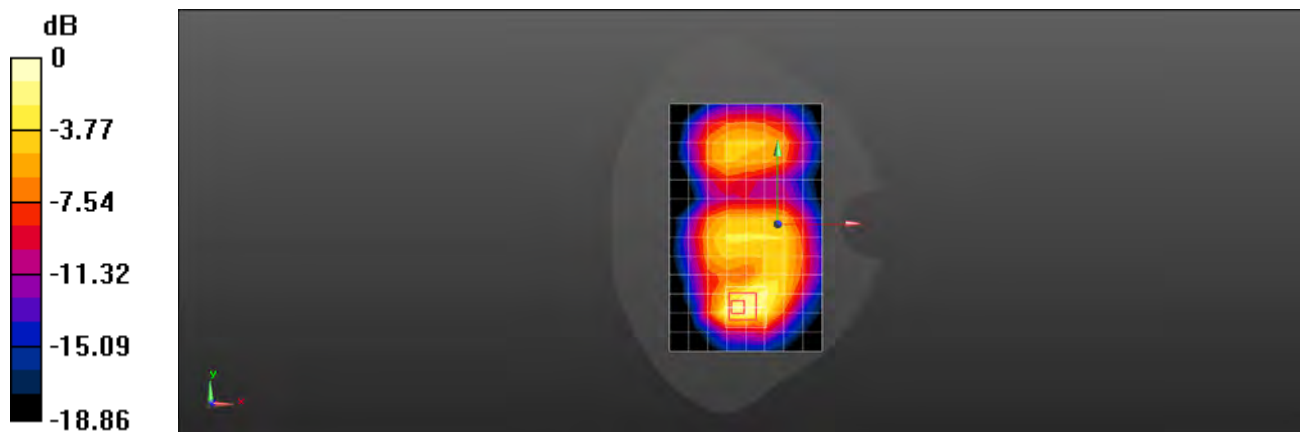
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.03 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.498 W/kg

**SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.172 W/kg**

Maximum value of SAR (measured) = 0.454 W/kg



0 dB = 0.454 W/kg = -3.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band IV 1413CH Right Cheek with SIM2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 40.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.79, 8.79, 8.79) @ 1732.6 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.196 W/kg

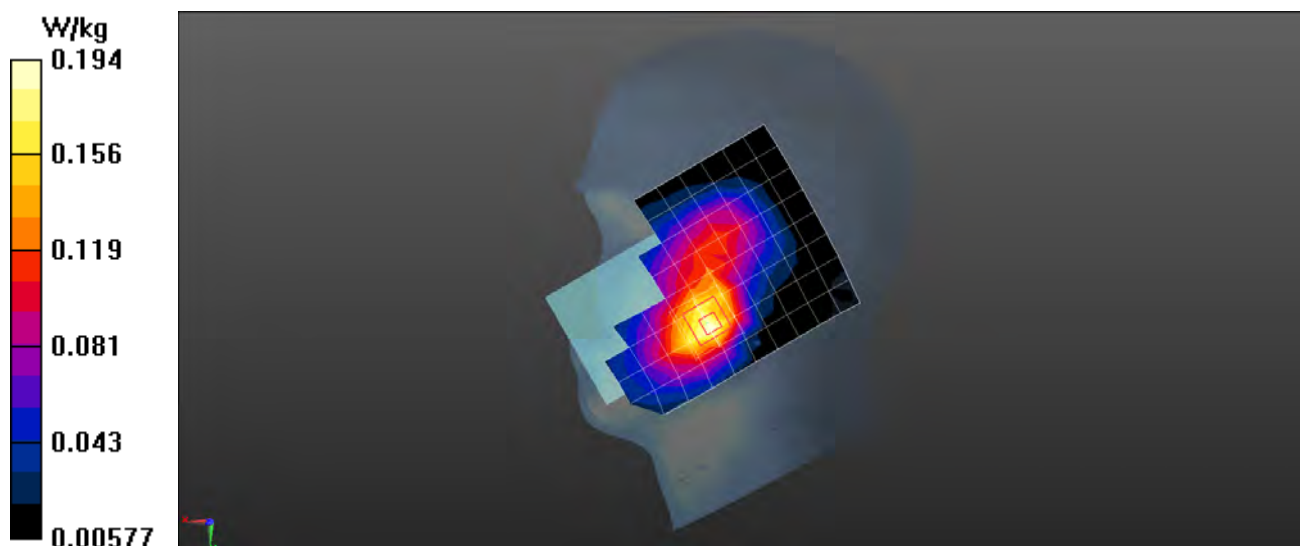
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.959 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.224 W/kg

**SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.100 W/kg**

Maximum value of SAR (measured) = 0.194 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 UMTS Band IV 1413CH Back Side 18mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 51.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74) @ 1732.6 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.575 W/kg

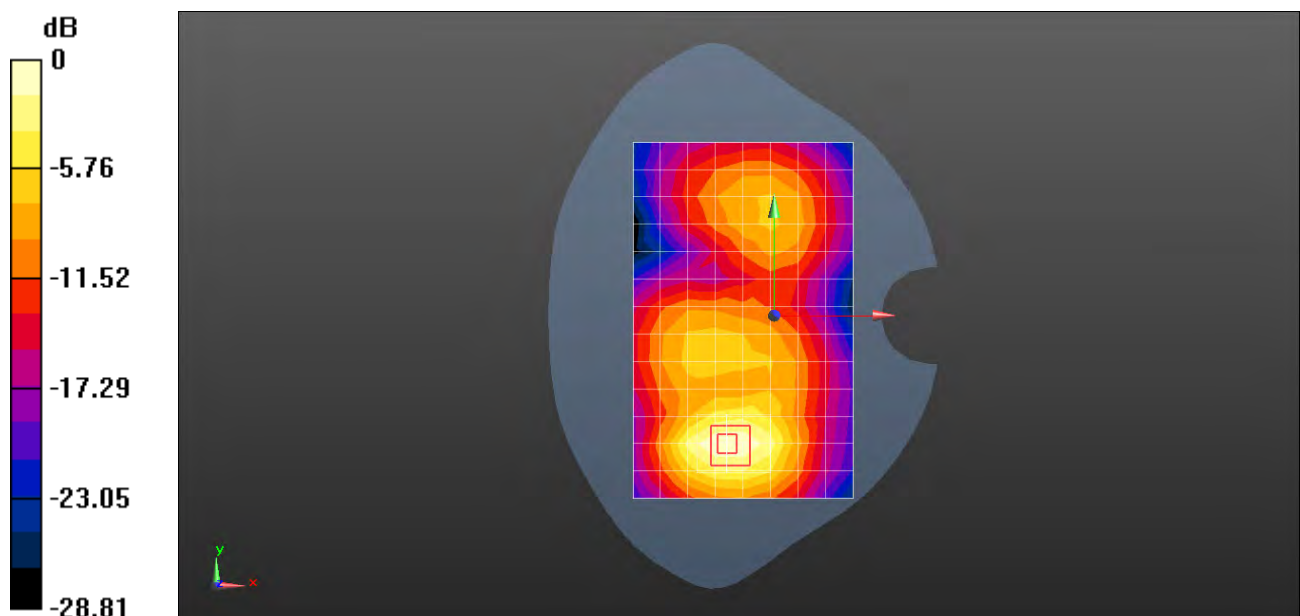
**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.088 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.705 W/kg

**SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.247 W/kg**

Maximum value of SAR (measured) = 0.608 W/kg



0 dB = 0.575 W/kg = -2.40 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 UMTS Band IV 1413CH Bottom Side 10mm with Battery3

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 51.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74) @ 1732.6 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.607 W/kg

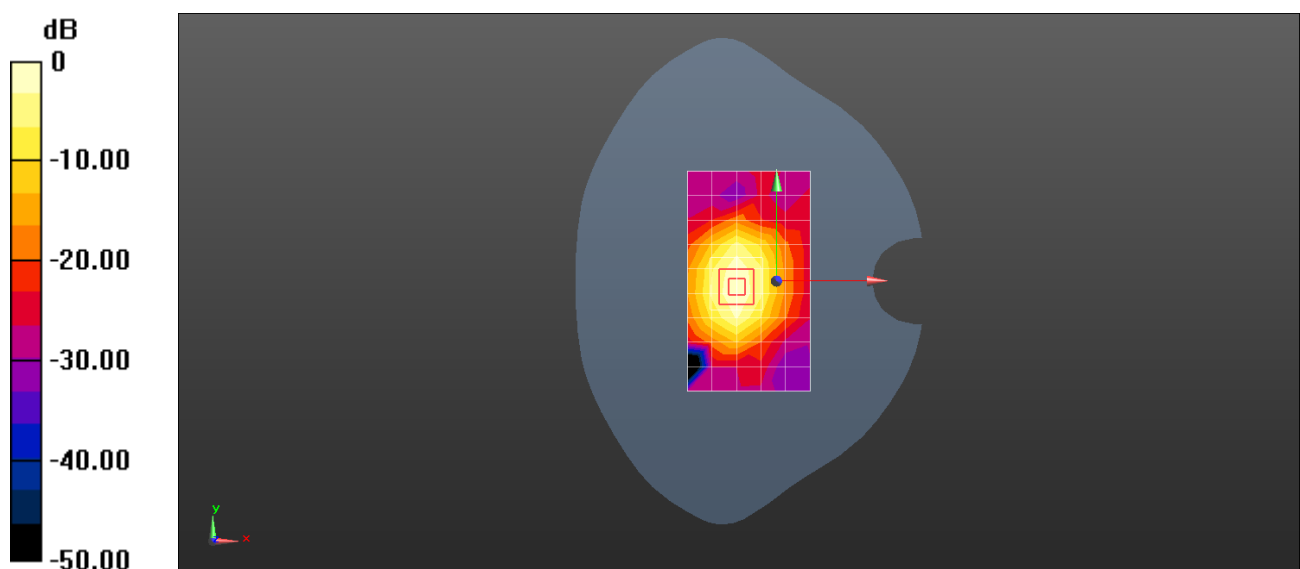
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.072 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.746 W/kg

**SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.227 W/kg**

Maximum value of SAR (measured) = 0.622 W/kg



0 dB = 0.607 W/kg = -2.17 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band IV 1413CH Bottom Side 12mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

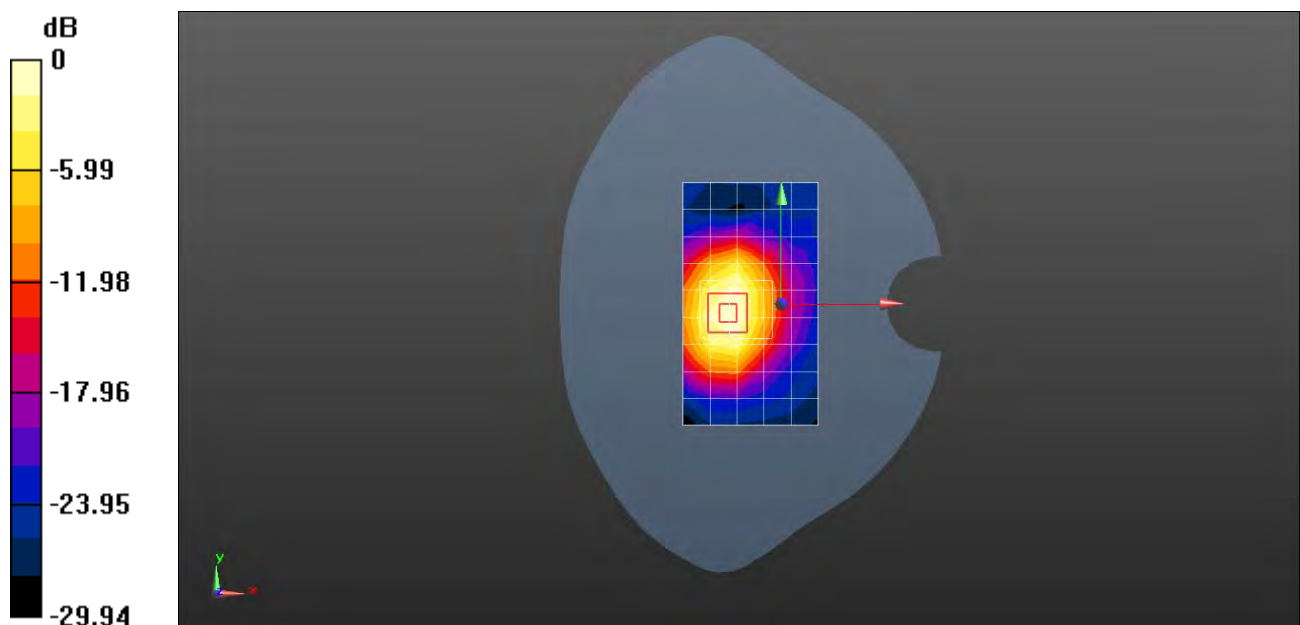
Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 51.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74) @ 1732.6 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 1.20 W/kg

**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 28.95 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 1.62 W/kg  
**SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.528 W/kg**  
Maximum value of SAR (measured) = 1.36 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band V 4182CH Left Cheek

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

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;  $\sigma = 0.929$  S/m;  $\epsilon_r = 42.137$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(10.3, 10.3, 10.3) @ 836.4 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.296 W/kg

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

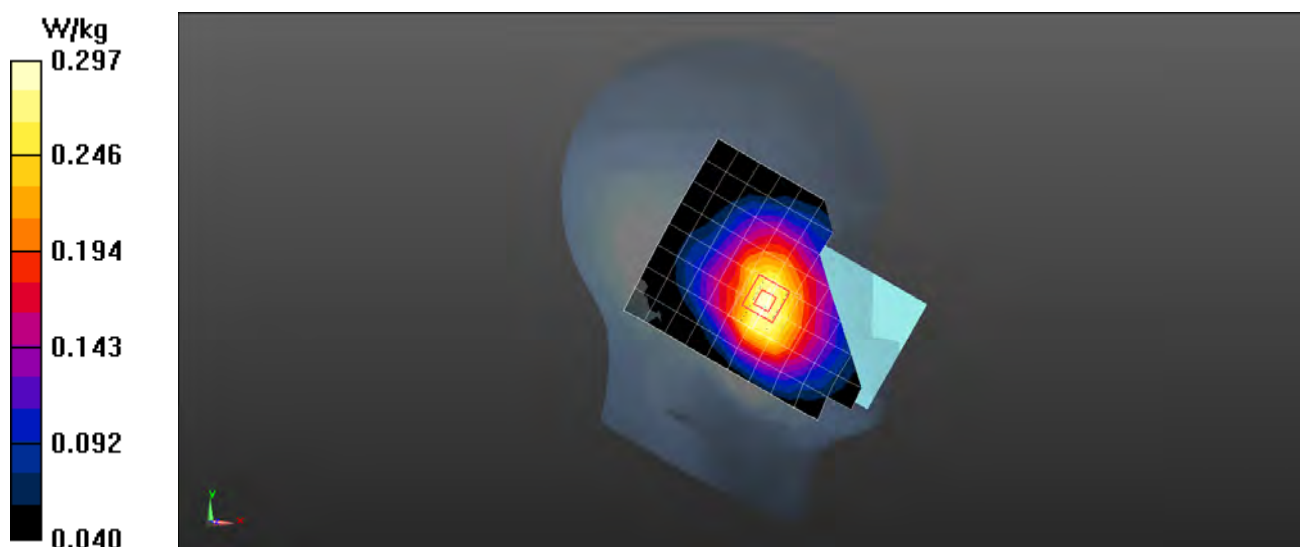
Reference Value = 8.696 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.324 W/kg

**SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.194 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.297 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 UMTS Band V 4182CH Back Side 18mm with Battery3

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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;  $\sigma = 0.99$  S/m;  $\epsilon_r = 53.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.73, 9.73, 9.73) @ 836.4 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.434 W/kg

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

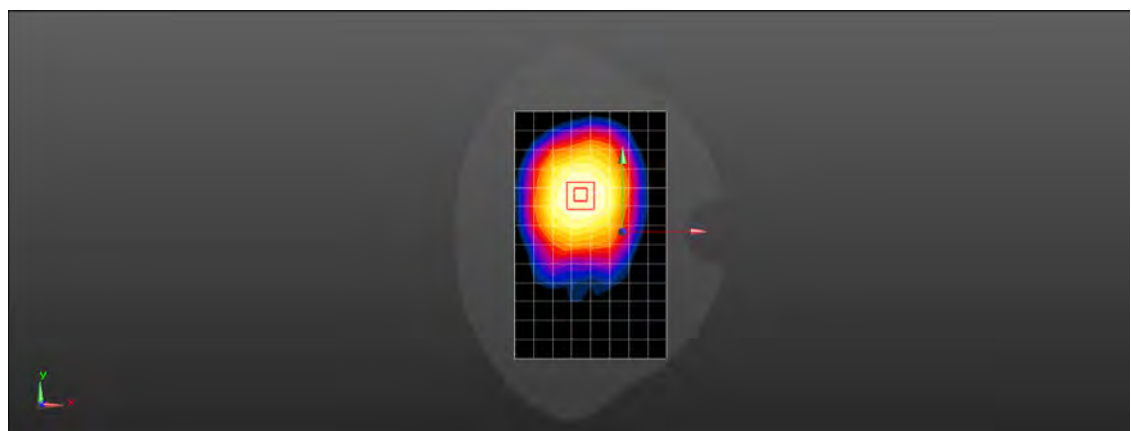
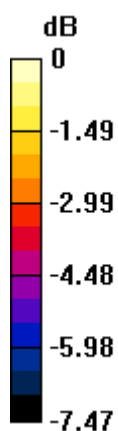
Reference Value = 18.31 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.444 W/kg

**SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.280 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.422 W/kg



0 dB = 0.422 W/kg = -3.75 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 UMTS Band V 4182CH Back Side 10mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

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;  $\sigma = 0.99$  S/m;  $\epsilon_r = 53.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.73, 9.73, 9.73) @ 836.4 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.450 W/kg

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

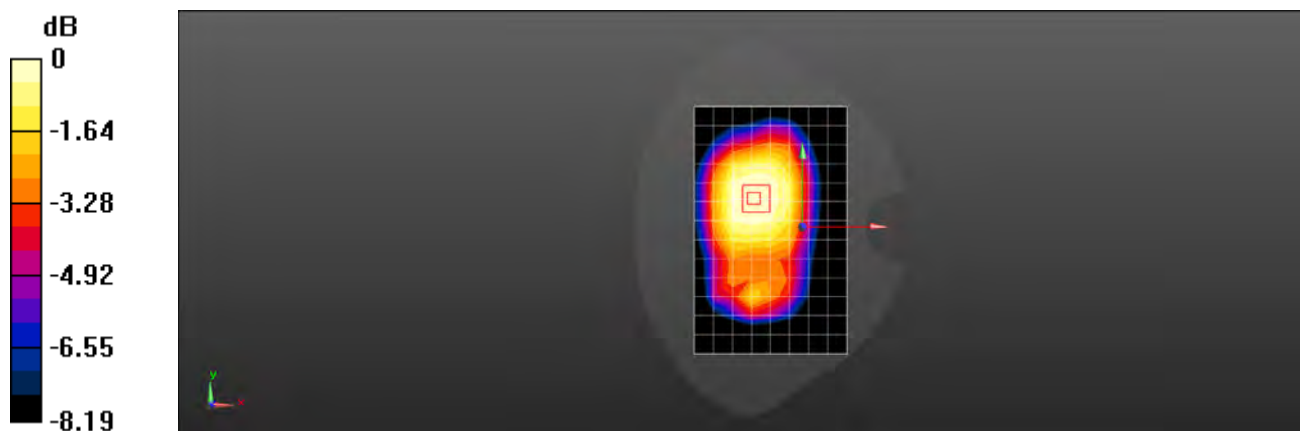
Reference Value = 19.91 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.471 W/kg

**SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.303 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.448 W/kg



0 dB = 0.448 W/kg = -3.49 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 2 20M QPSK 1RB 50 Offset 18900CH Left Cheek with Battery3

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  S/m;  $\epsilon_r = 39.773$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.32, 8.32, 8.32) @ 1880 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.340 W/kg

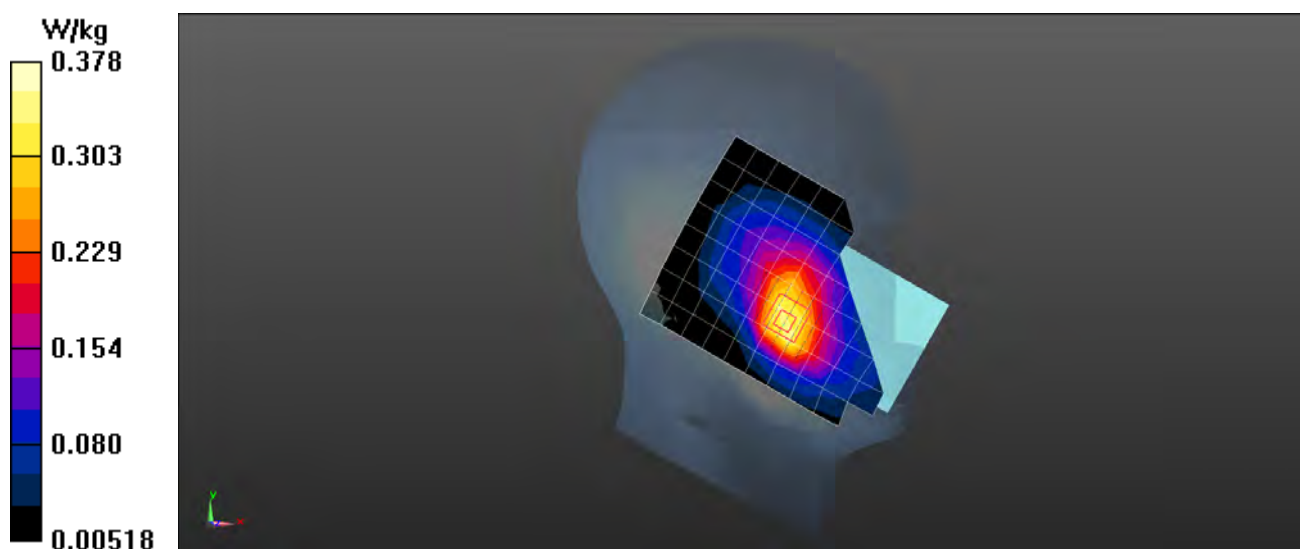
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.581 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.426 W/kg

**SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.188 W/kg**

Maximum value of SAR (measured) = 0.378 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 2 20M QPSK 1RB 50 Offset 18900CH Front Side 15mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.564$  S/m;  $\epsilon_r = 51.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.87, 7.87, 7.87) @ 1880 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.281 W/kg

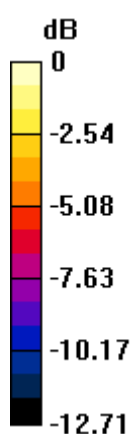
**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.37 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.287 W/kg

**SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.137 W/kg**

Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kg = -5.83 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 2 20M QPSK 1RB 50 Offset 18900CH Back Side 10mm with SIM2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.564$  S/m;  $\epsilon_r = 51.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.87, 7.87, 7.87) @ 1880 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.388 W/kg

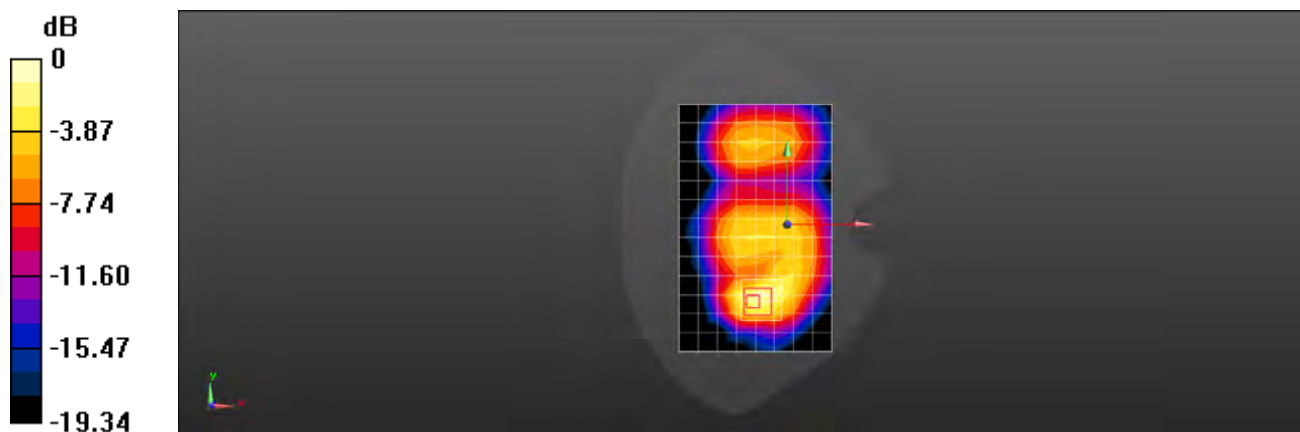
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.22 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.503 W/kg

**SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.170 W/kg**

Maximum value of SAR (measured) = 0.459 W/kg



0 dB = 0.459 W/kg = -3.39 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 4 20M QPSK 1RB 50 Offset 20175CH Right Cheek with SIM2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 40.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(8.79, 8.79, 8.79) @ 1732.5 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

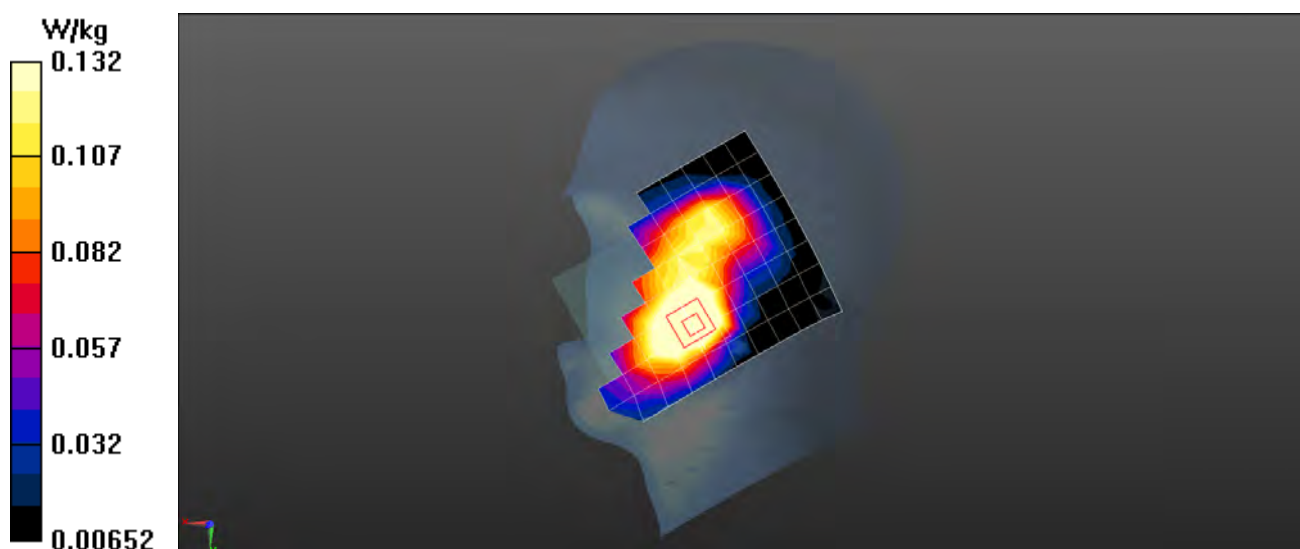
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.926 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.237 W/kg

**SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.105 W/kg**

Maximum value of SAR (measured) = 0.209 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 4 20M QPSK 1RB 50 Offset 20175CH Back Side 18mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 51.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74) @ 1732.5 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.494 W/kg

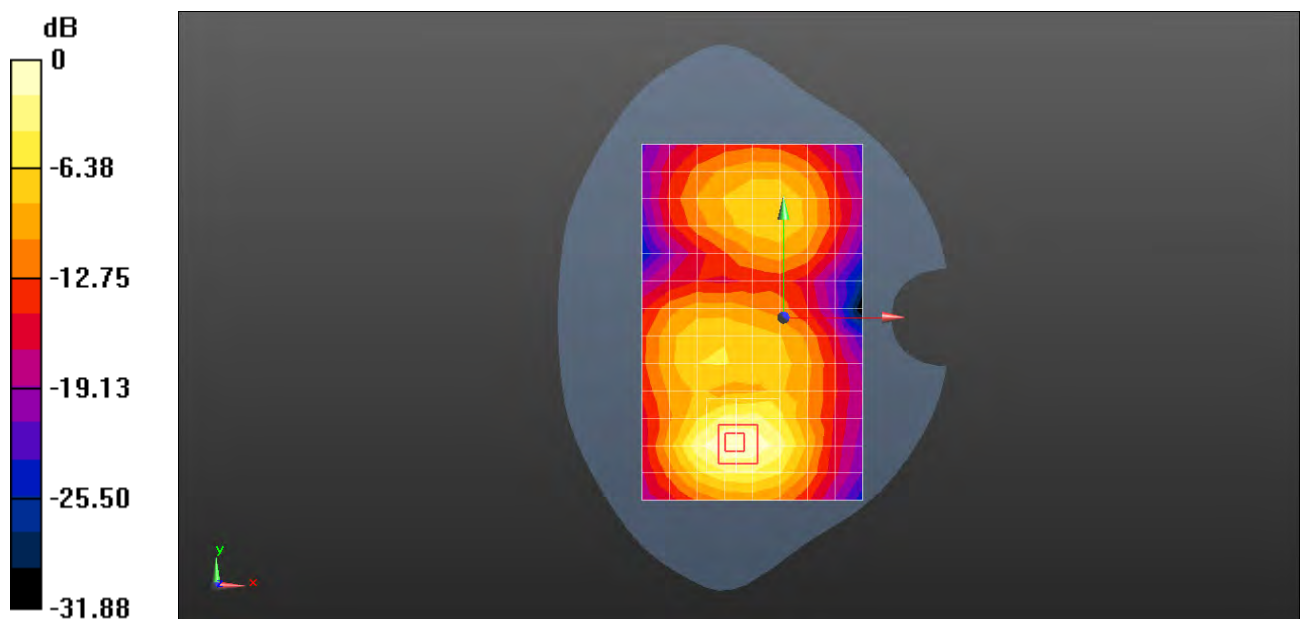
**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.886 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.613 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.217 W/kg**

Maximum value of SAR (measured) = 0.528 W/kg



0 dB = 0.494 W/kg = -3.06 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 LTE Band 4 20M QPSK 50%RB 0 Offset 20050CH Back Side 10mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.415$  S/m;  $\epsilon_r = 51.157$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74) @ 1720 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x16x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.521 W/kg

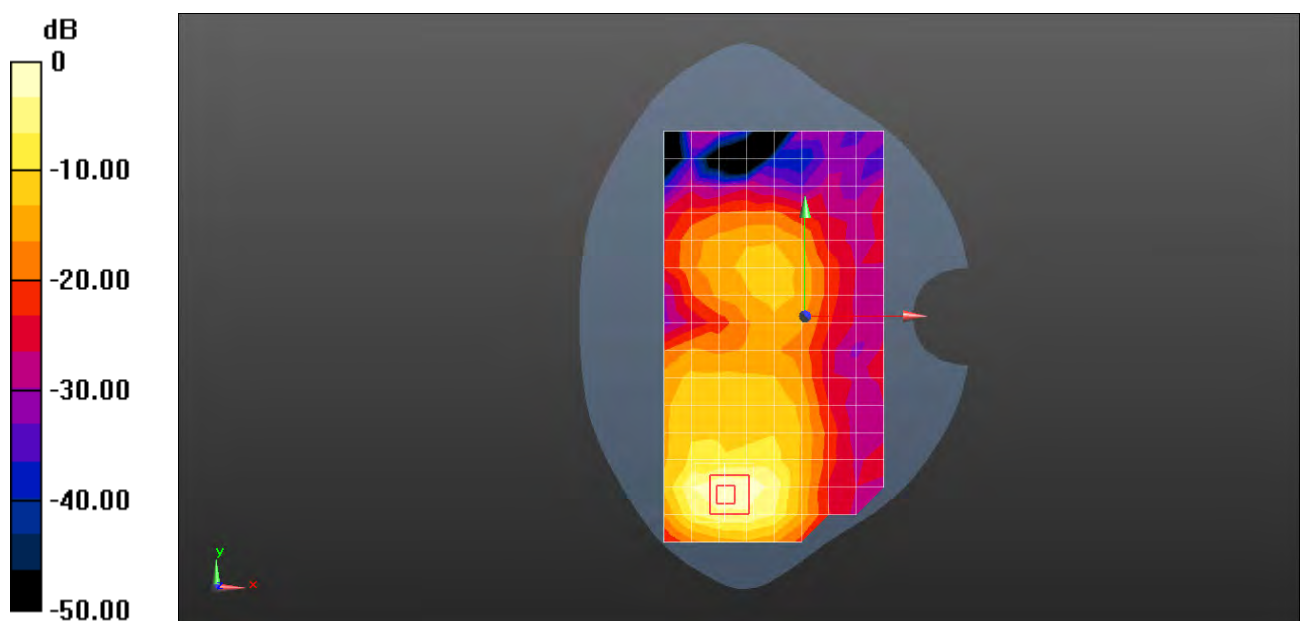
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 0.5680 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.683 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.196 W/kg**

Maximum value of SAR (measured) = 0.576 W/kg



0 dB = 0.521 W/kg = -2.83 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 4 20M QPSK 1RB 50 Offset 20175CH Bottom Side 12mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 51.15$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.74, 7.74, 7.74) @ 1732.5 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.30 W/kg

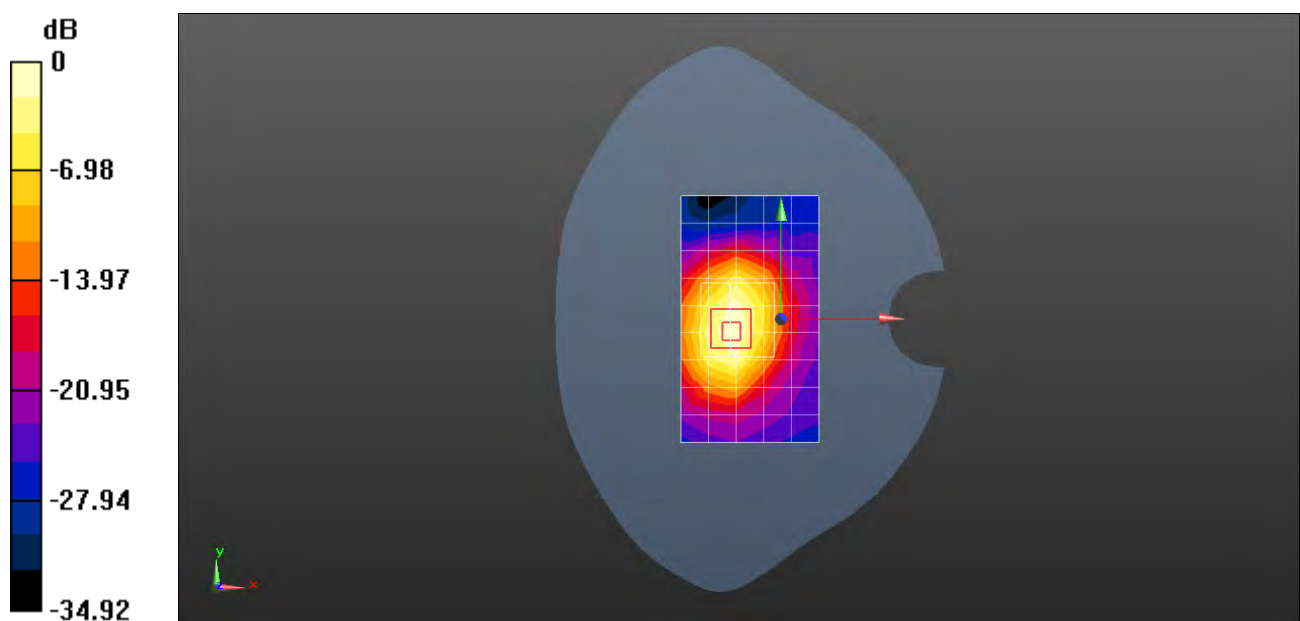
**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 30.05 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.60 W/kg

**SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.515 W/kg**

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 5 10M QPSK 1RB 25 Offset 20525CH Left Cheek with Battery2-Main Antenna

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 42.137$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(10.3, 10.3, 10.3) @ 836.5 MHz; Calibrated: 2018-9-28
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- ε Phantom: SAM7; Type: SAM; Serial: 1594
- ε DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.225 W/kg

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

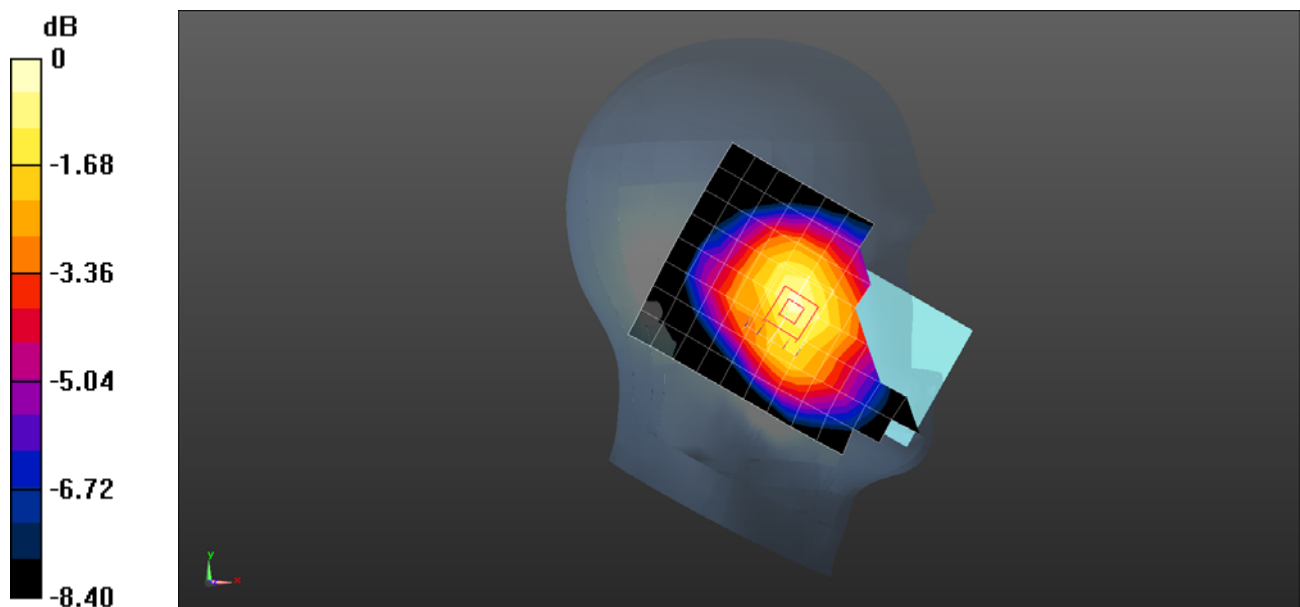
Reference Value = 8.869 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.251 W/kg

**SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.151 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg = -6.31 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 5 10M QPSK 1RB 25 Offset 20525CH Back Side 18mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.991$  S/m;  $\epsilon_r = 53.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.73, 9.73, 9.73) @ 836.5 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.367 W/kg

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

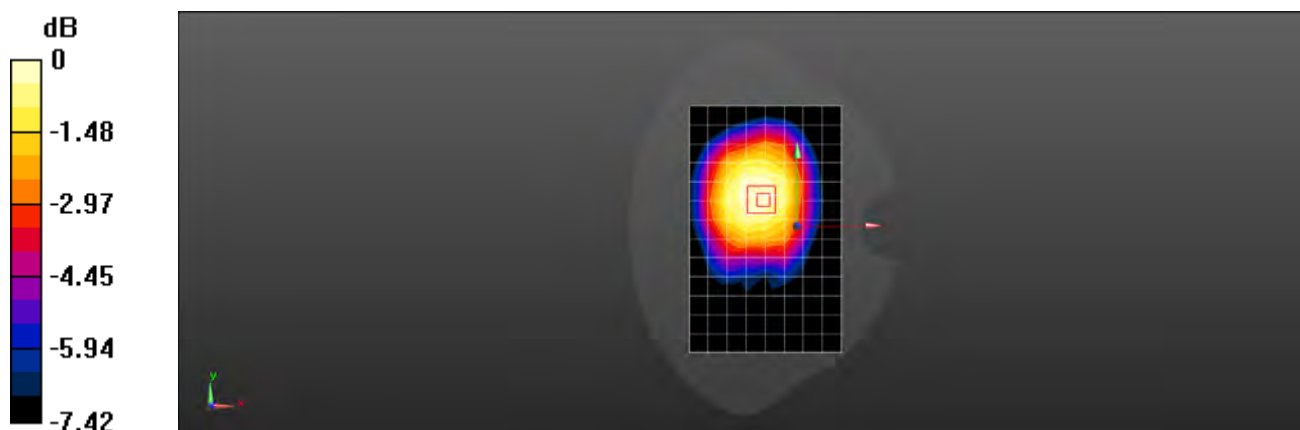
Reference Value = 18.06 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.248 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.373 W/kg



0 dB = 0.373 W/kg = -4.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 5 10M QPSK 1RB 25 Offset 20525CH Back Side 10mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.991$  S/m;  $\epsilon_r = 53.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.73, 9.73, 9.73) @ 836.5 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

**Info:** [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.480 W/kg

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

Reference Value = 22.02 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.488 W/kg

**SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.308 W/kg**

Maximum value of SAR (measured) = 0.458 W/kg

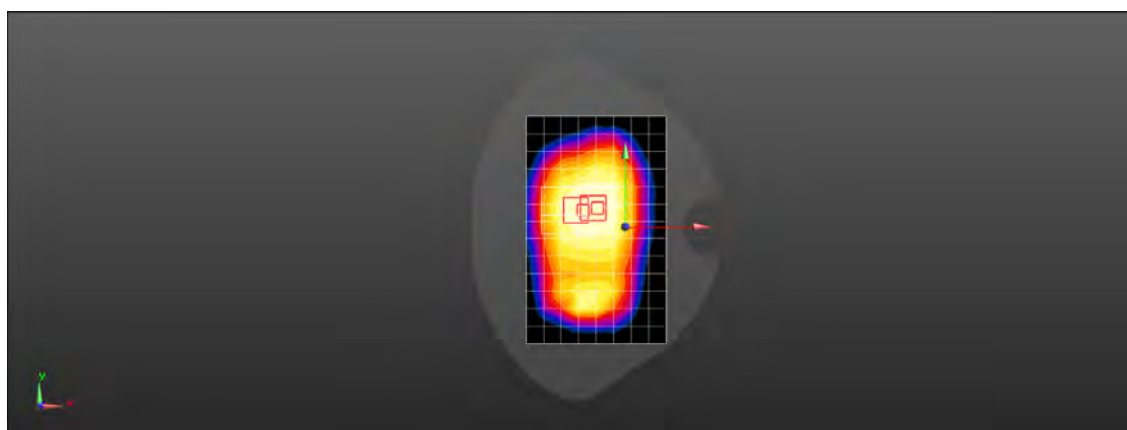
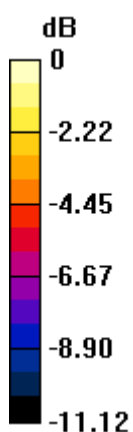
**Configuration/Body/Zoom Scan (6x6x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 22.02 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.470 W/kg

**SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.287 W/kg**

Maximum value of SAR (measured) = 0.448 W/kg



0 dB = 0.448 W/kg = -3.49 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 7 20M QPSK 1RB 50 Offset 21100CH Right Cheek

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

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;  $\sigma = 1.926$  S/m;  $\epsilon_r = 39.944$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(7.35, 7.35, 7.35) @ 2535 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (10x15x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.229 W/kg

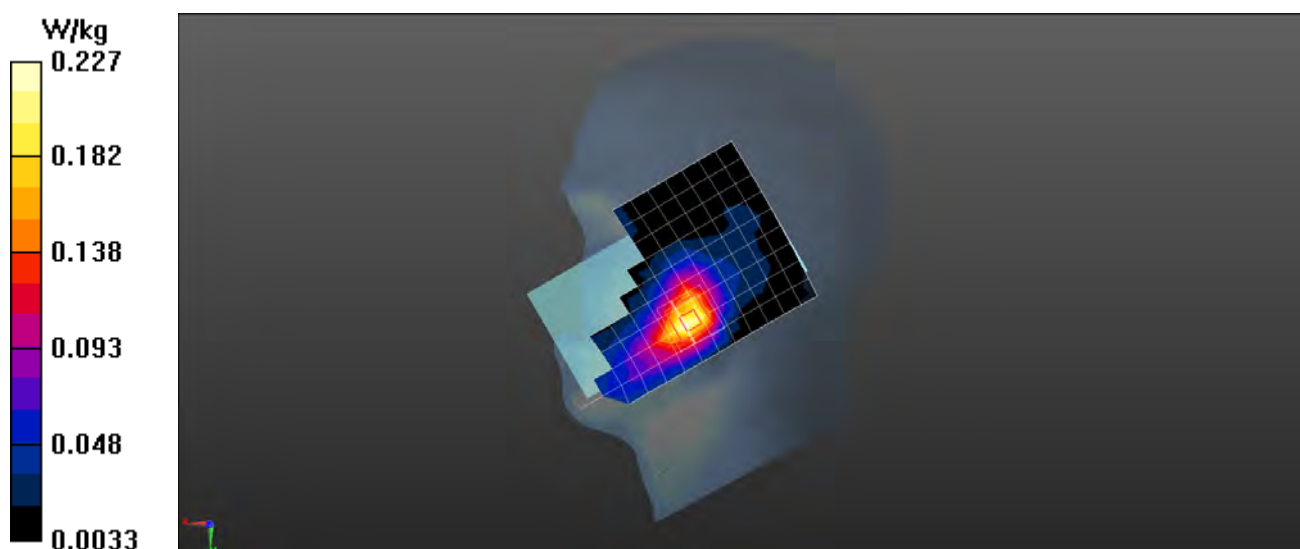
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.891 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.275 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.089 W/kg**

Maximum value of SAR (measured) = 0.227 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 7 20M QPSK 1RB 50 Offset 21100CH Back Side 18mm

with SIM2

**DUT: MRD-LX3; 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;  $\sigma = 2.15$  S/m;  $\epsilon_r = 50.306$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.35, 7.35, 7.35) @ 2535 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.282 W/kg

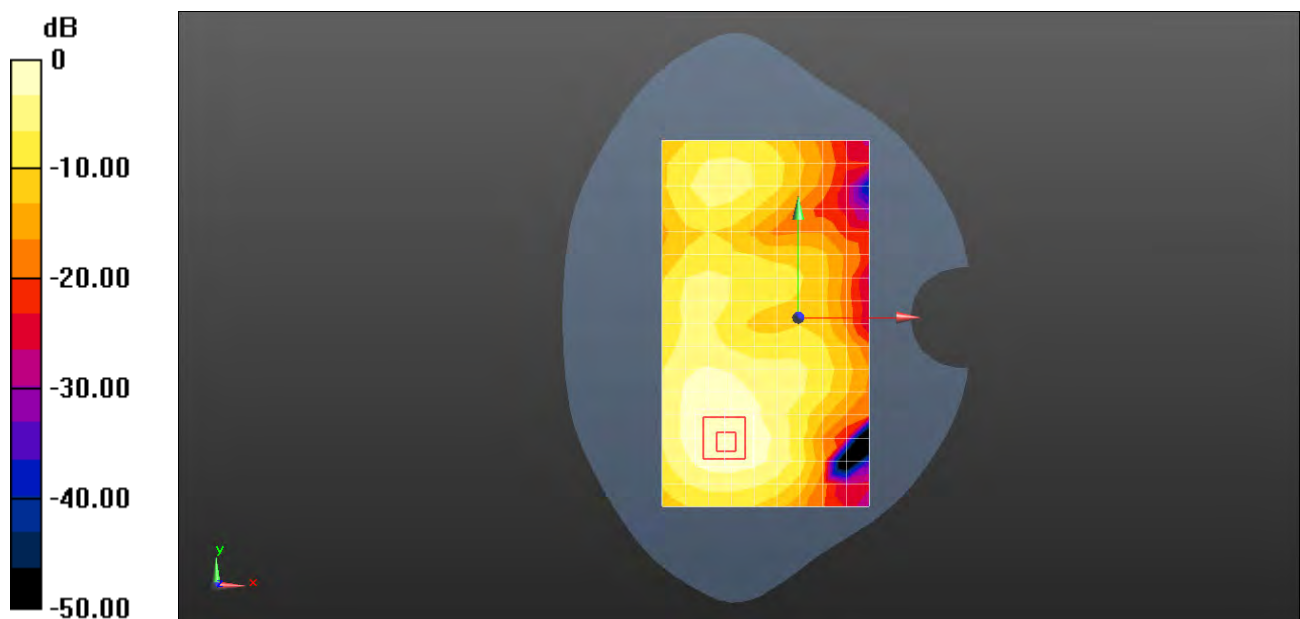
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.752 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.107 W/kg**

Maximum value of SAR (measured) = 0.284 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 LTE Band 7 20M QPSK 1RB 50 Offset 20850CH Bottom Side 10mm

**DUT: MRD-LX3; 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;  $\sigma = 2.126$  S/m;  $\epsilon_r = 50.335$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.35, 7.35, 7.35) @ 2510 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.451 W/kg

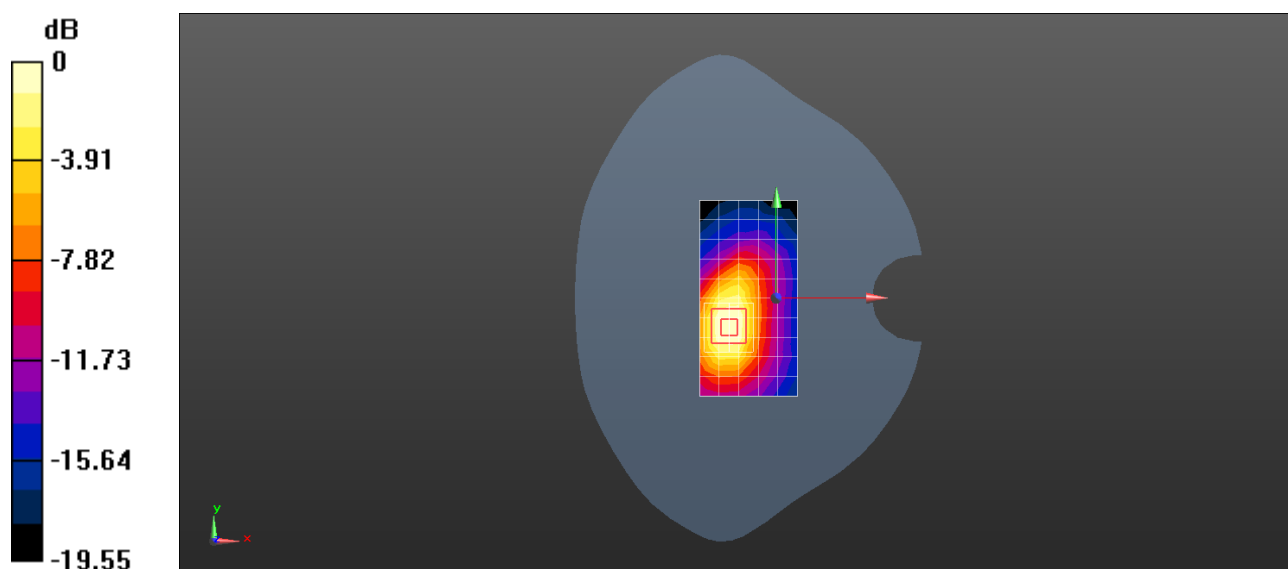
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 11.90 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.815 W/kg

**SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.191 W/kg**

Maximum value of SAR (measured) = 0.665 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MRD-LX3 LTE Band 7 20M QPSK 50%RB 50 Offset 20850CH Bottom Side 0mm**

**DUT: MRD-LX3; 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:  $f = 2510 \text{ MHz}$ ;  $\sigma = 2.126 \text{ S/m}$ ;  $\epsilon_r = 50.335$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.35, 7.35, 7.35) @ 2510 MHz; Calibrated: 2018-7-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn393; Calibrated: 2018-8-14
- Phantom: SAM2; Type: SAM; Serial: 1474
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (6x11x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) = 3.87 W/kg

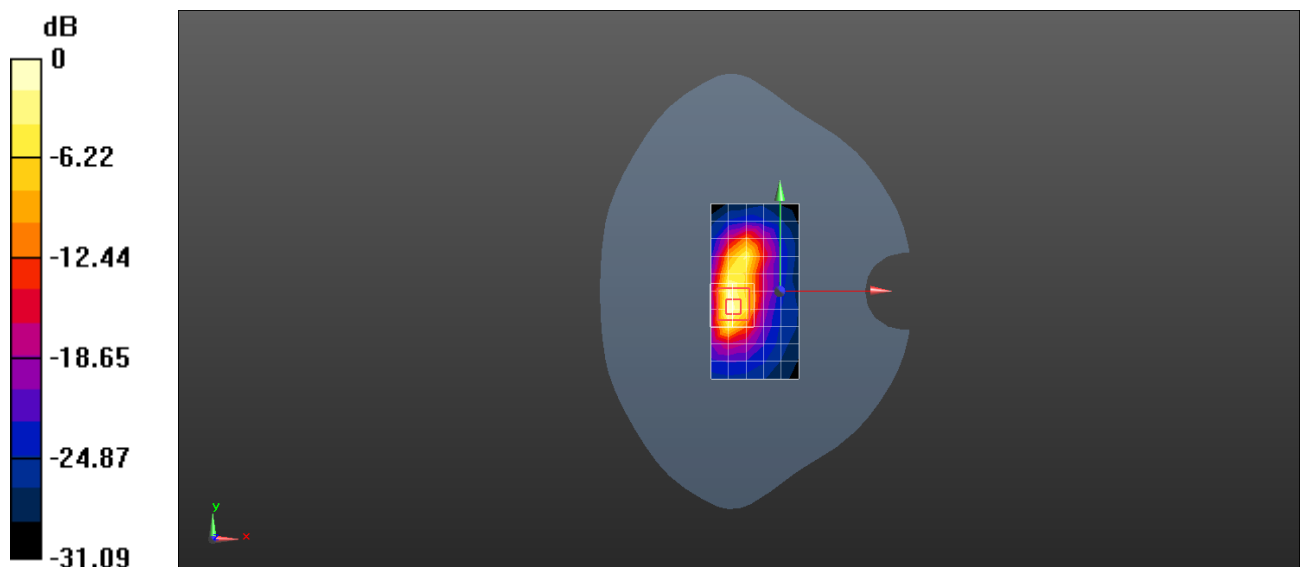
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 33.41 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 8.57 W/kg

**SAR(1 g) = 3.08 W/kg; SAR(10 g) = 1.05 W/kg**

Maximum value of SAR (measured) = 5.78 W/kg



0 dB = 3.87 W/kg = 5.88 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 17 10M QPSK 1RB 25 Offset 23790CH Left Cheek

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 43.089$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(10.66, 10.66, 10.66) @ 710 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (10x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.193 W/kg

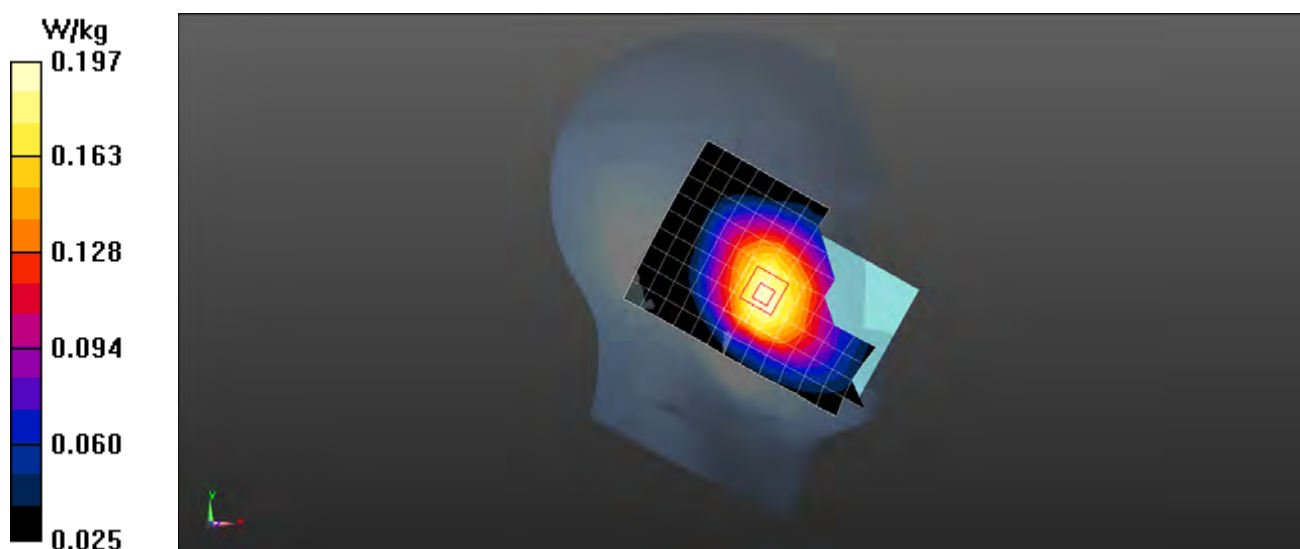
**Configuration/Head/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.700 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.209 W/kg

**SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.136 W/kg**

Maximum value of SAR (measured) = 0.197 W/kg





Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 LTE Band 17 10M QPSK 1RB 25 Offset 23790CH Back Side 18mm with SIM2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 52.918$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.96, 9.96, 9.96) @ 710 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.373 W/kg

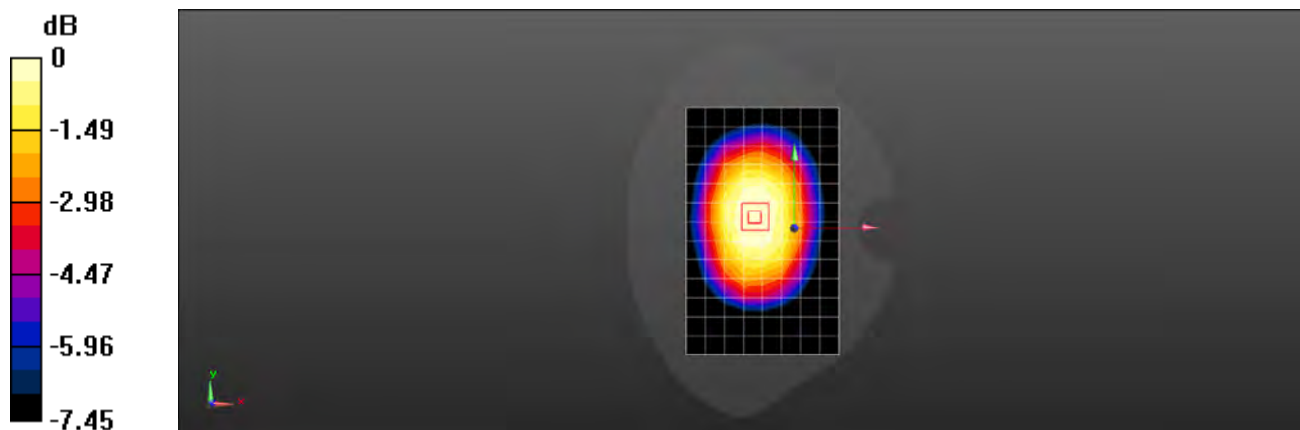
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 20.15 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.383 W/kg

**SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.249 W/kg**

Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.364 W/kg = -4.39 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 LTE Band 17 10M QPSK 1RB 25 Offset 23790CH Back Side 10mm

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR3**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 52.918$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(9.96, 9.96, 9.96) @ 710 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2018-4-23
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.338 W/kg

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

Reference Value = 19.27 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.340 W/kg

**SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.227 W/kg**

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

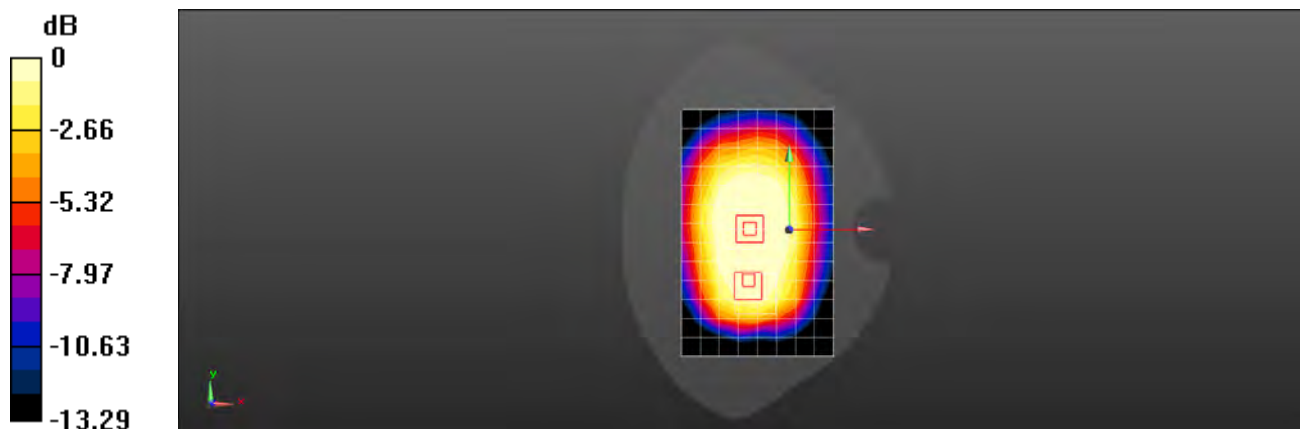
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 19.27 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.260 W/kg

**SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.141 W/kg**

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.248 W/kg = -6.06 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 WiFi 2.4G 802.11b 11CH Left Cheek with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

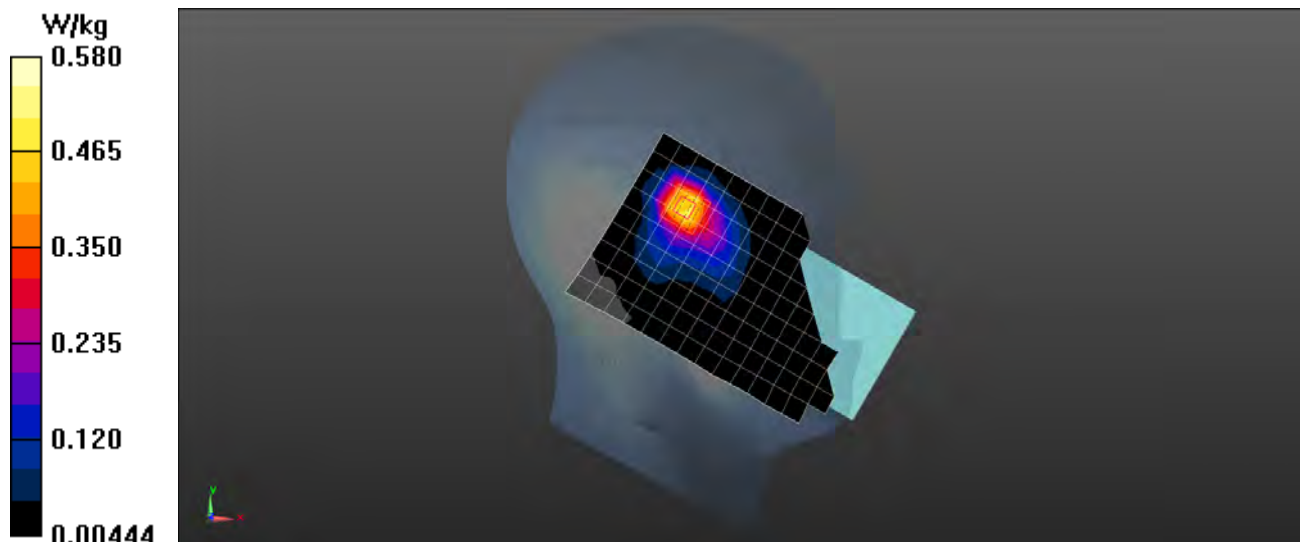
Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.882$  S/m;  $\epsilon_r = 40.97$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(7.61, 7.61, 7.61) @ 2462 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.487 W/kg

**Configuration/Head/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 9.468 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 0.742 W/kg  
**SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.180 W/kg**  
Maximum value of SAR (measured) = 0.580 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MRD-LX3 WiFi 2.4G 802.11b 6CH Back Side 15mm with Battery3

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 2.029$  S/m;  $\epsilon_r = 52.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: Triple Flat Phantom 5.1C; Type: MFP V5.1 C; Serial: 1176/2
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.149 W/kg

**Configuration/Body/Zoom Scan (7x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

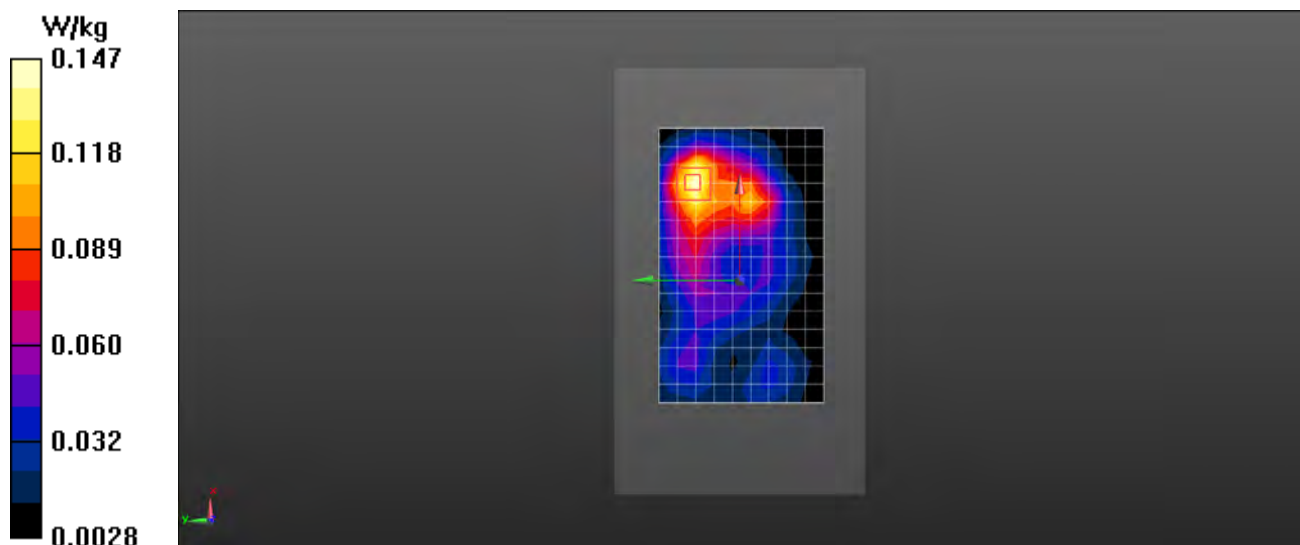
Reference Value = 4.280 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.178 W/kg

**SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.054 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.147 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 WiFi 2.4G 802.11b 6CH Top Side 10mm with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 2.029$  S/m;  $\epsilon_r = 52.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(7.76, 7.76, 7.76) @ 2437 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: Triple Flat Phantom 5.1C; Type: MFP V5.1 C; Serial: 1176/2
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.293 W/kg

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

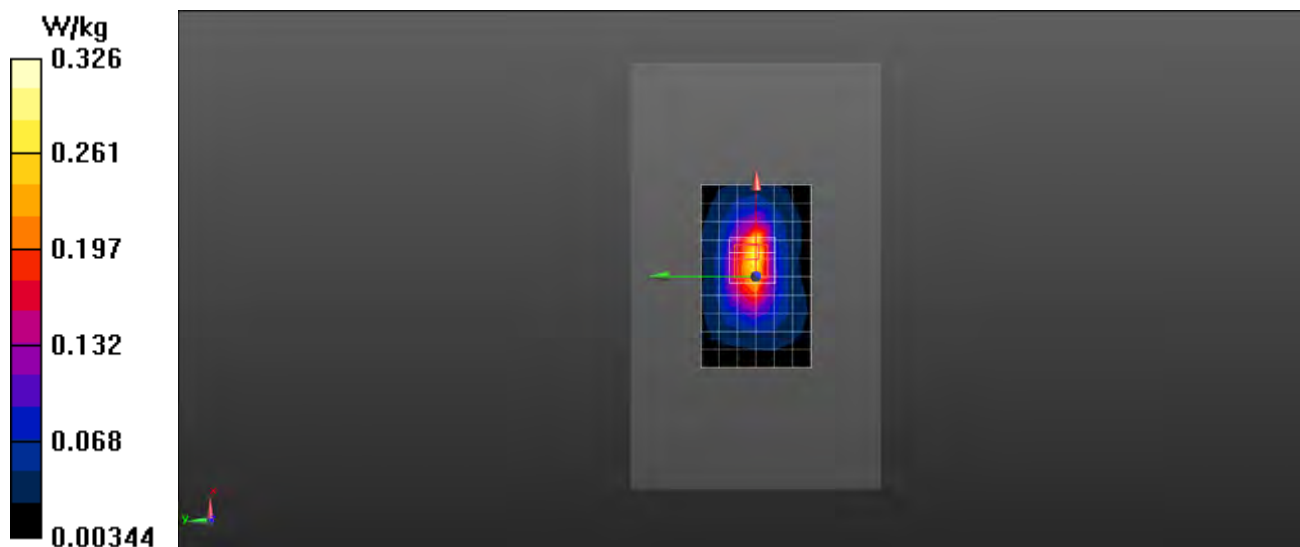
Reference Value = 11.88 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.406 W/kg

**SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.100 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.326 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MRD-LX3 BT DH5 0CH Left Cheek with Battery2

**DUT: MRD-LX3; Type: Smart Phone; Serial: SAR4**

Communication System: UID 0, BT (0); Frequency: 2402 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.837$  S/m;  $\epsilon_r = 41.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7381; ConvF(7.61, 7.61, 7.61) @ 2402 MHz; Calibrated: 2018-9-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1236; Calibrated: 2018-7-18
- Phantom: SAM7; Type: SAM; Serial: 1594
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

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

Reference Value = 5.044 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.286 W/kg

**SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.069 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.220 W/kg

