

**Appendix B. SAR Measurement Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 GSM850 251CH Right hand touch cheek-repeated-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.939$  S/m;  $\epsilon_r = 42.395$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.24 W/kg

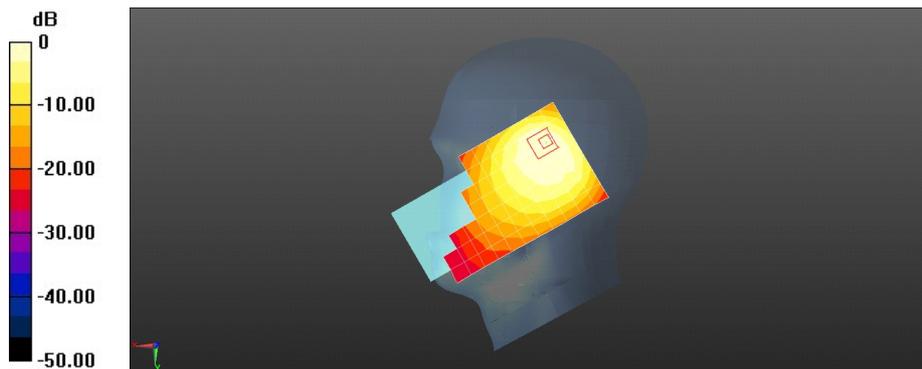
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 25.94 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.49 W/kg

**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.633 W/kg**

Maximum value of SAR (measured) = 1.66 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 GSM850 190CH Back Side 15mm-Second antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.275 W/kg

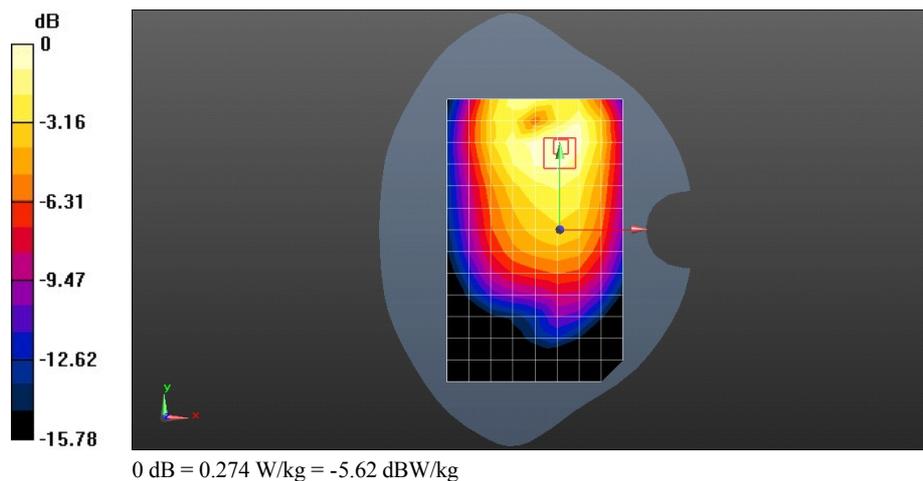
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.64 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.333 W/kg

**SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.172 W/kg**

Maximum value of SAR (measured) = 0.274 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 GSM850 GPRS 2TS 190CH Back Side 10mm-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.978$  S/m;  $\epsilon_r = 53.192$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

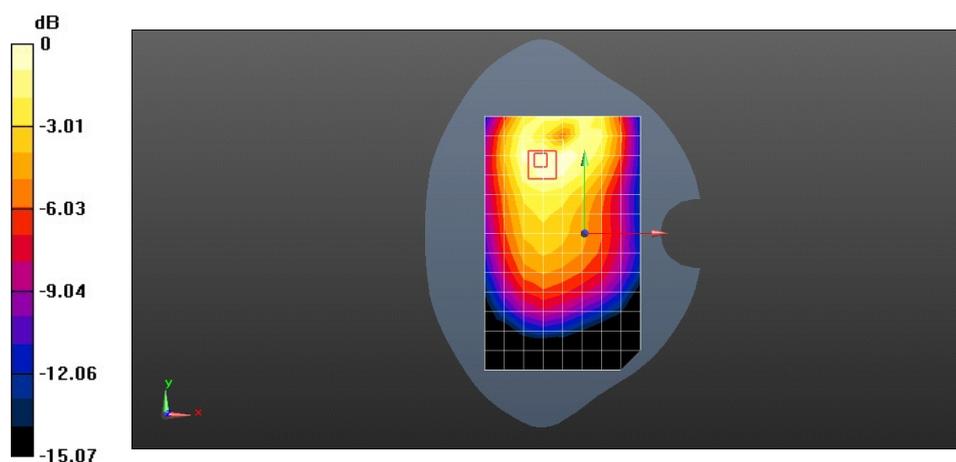
Maximum value of SAR (measured) = 0.386 W/kg

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

Reference Value = 10.12 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.576 W/kg

**SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.196 W/kg**



0 dB = 0.386 W/kg = -4.13 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 UMTS Band V 4233CH Right hand touch cheek-repeated-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.898$  S/m;  $\epsilon_r = 41.674$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 1.49 W/kg

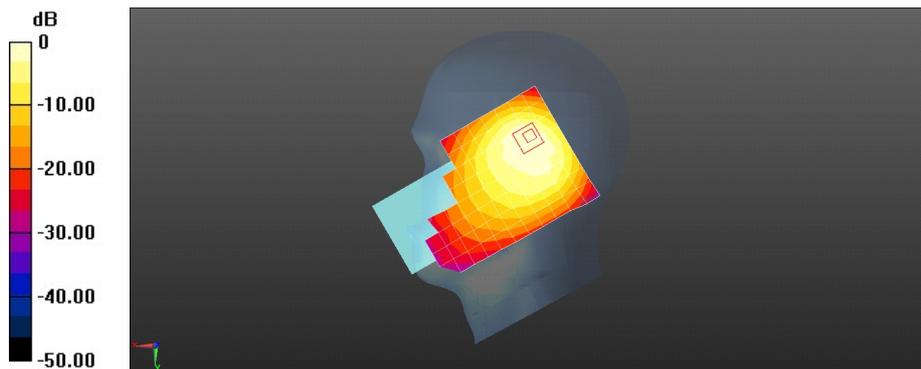
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 26.50 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.57 W/kg

**SAR(1 g) = 1.26 W/kg; SAR(10 g) = 0.677 W/kg**

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 UMTS Band V 4182CH Back Side 15mm-Second antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

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

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

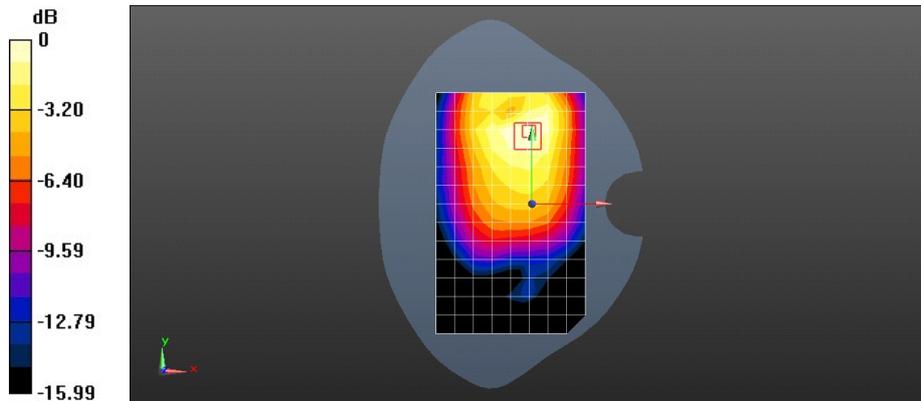
Reference Value = 8.240 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.193 W/kg

**SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.100 W/kg**

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

Maximum value of SAR (measured) = 0.162 W/kg



0 dB = 0.162 W/kg = -7.90 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band V 4182CH Back Side 10mm-Second antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

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

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

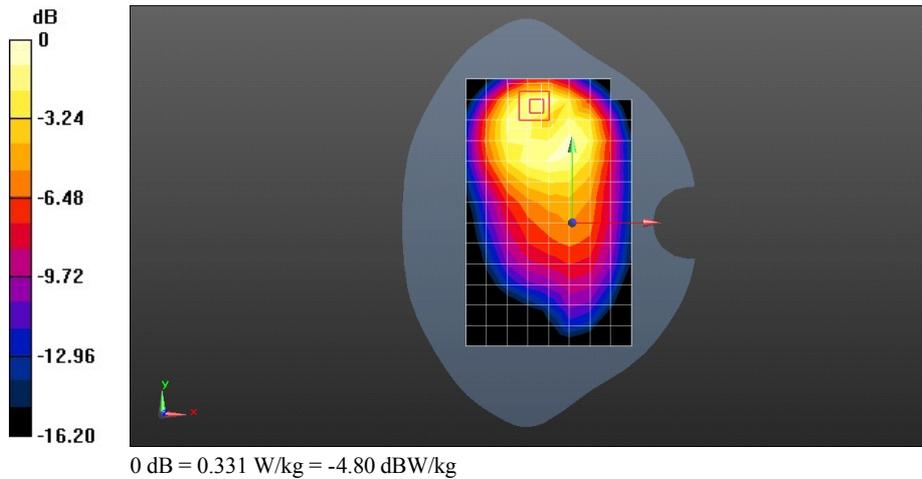
Reference Value = 9.361 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.448 W/kg

**SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.158 W/kg**

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

Maximum value of SAR (measured) = 0.331 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 CDMA BC0 RC3 SO55 777CH Right hand touch cheek repeated-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-CDMA2000 (0); Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.937$  S/m;  $\epsilon_r = 42.368$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 1.37 W/kg

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

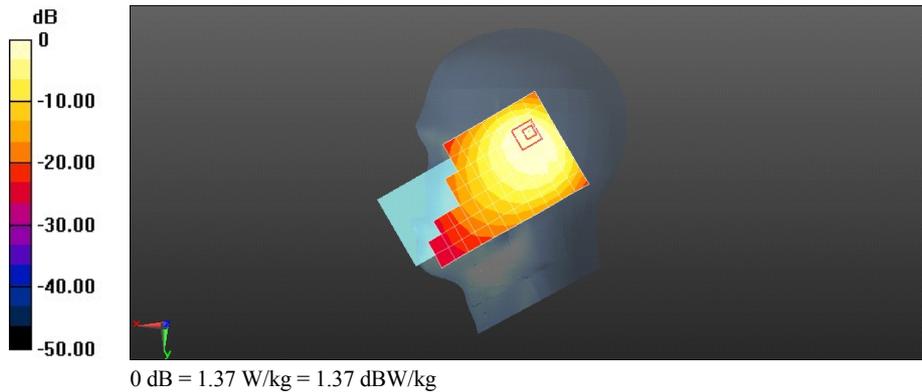
Reference Value = 25.21 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.53 W/kg

**SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.649 W/kg**

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

Maximum value of SAR (measured) = 1.66 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 CDMA BC0 384CH Back Side 15mm-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

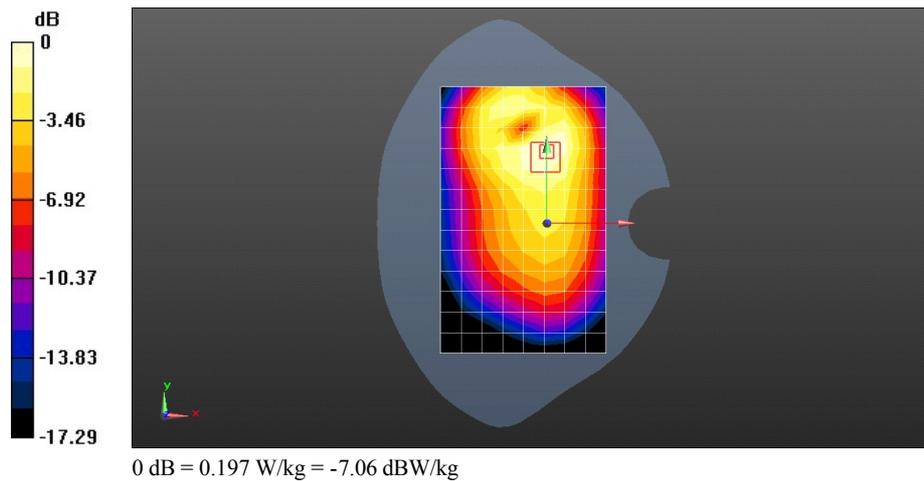
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.171 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.238 W/kg

**SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.122 W/kg**

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



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 CDMA BC0 384CH Back Side 10mm-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.984$  S/m;  $\epsilon_r = 54.163$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.344 W/kg

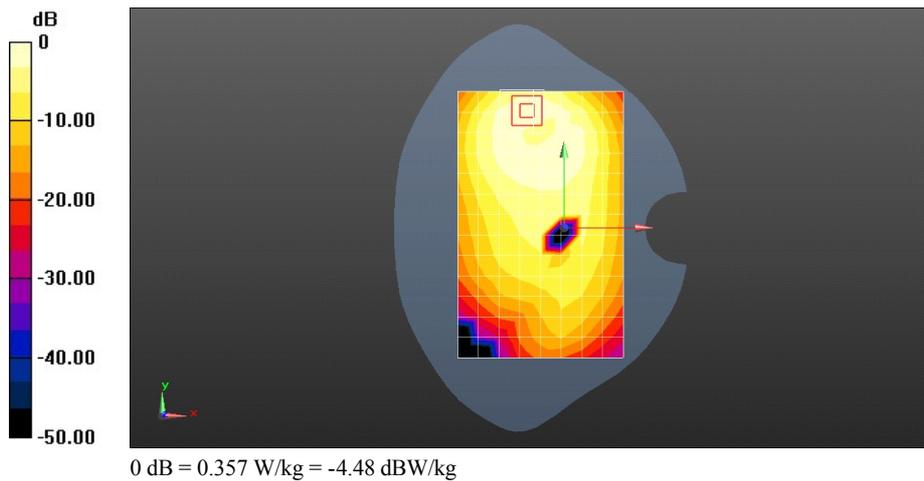
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.03 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.494 W/kg

**SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.165 W/kg**

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



Test Laboratory: HUAWEI SAR/HAC Lab

**H1511 LTE Band V 10M QPSK 1RB#49 20600CH Right hand touch cheek-Second Antenna**

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.896 \text{ S/m}$ ;  $\epsilon_r = 41.648$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.19 W/kg

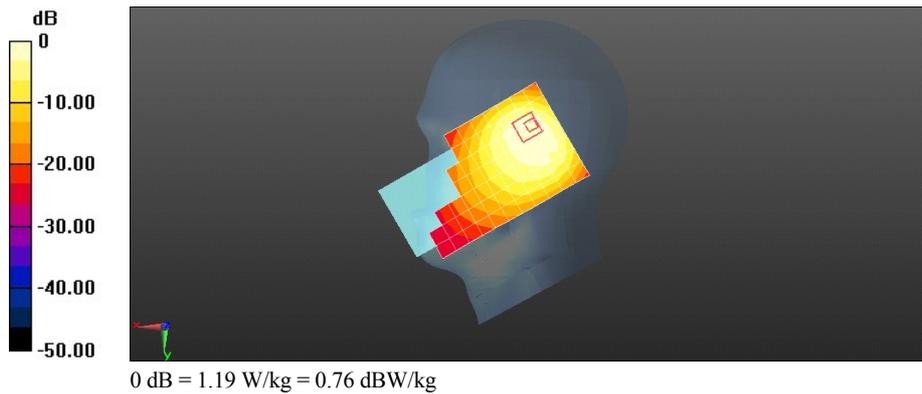
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 23.29 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.11 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.553 W/kg**

Maximum value of SAR (measured) = 1.36 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 LTE Band V 10M QPSK 1RB#49 20525CH Back Side 15mm-Second antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.014$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

Maximum value of SAR (measured) = 0.164 W/kg

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

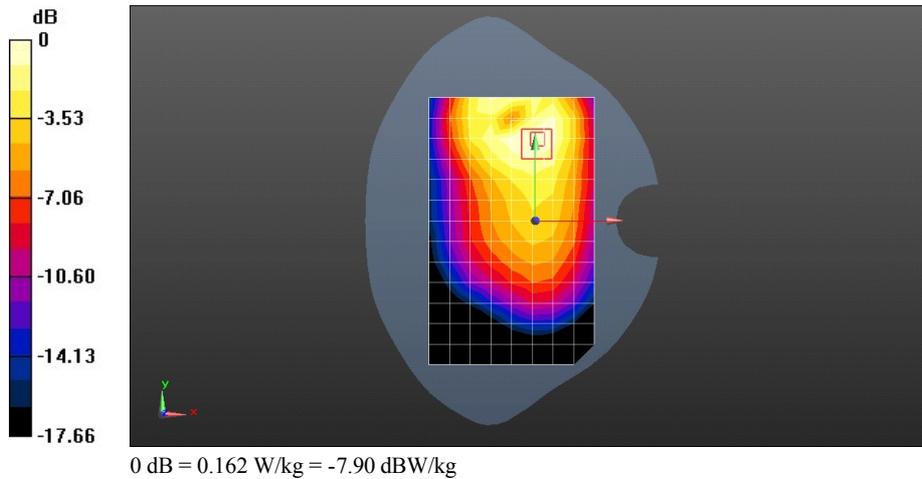
Reference Value = 7.555 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.205 W/kg

**SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.100 W/kg**

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

Maximum value of SAR (measured) = 0.162 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 LTE Band V 10M QPSK 50%RB#0 20450CH Back Side 10mm-Second antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 829 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 829$  MHz;  $\sigma = 0.969$  S/m;  $\epsilon_r = 53.286$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.154 W/kg

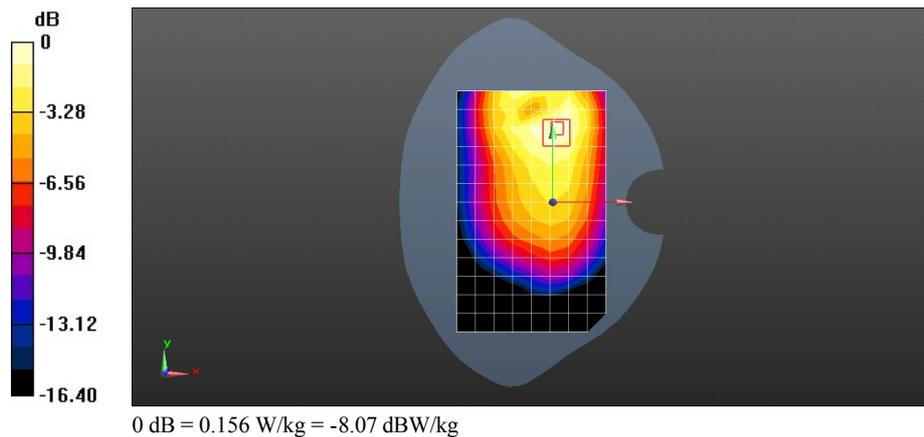
**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.693 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.227 W/kg

**SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.076 W/kg**

Maximum value of SAR (measured) = 0.156 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**H1511 LTE Band XVII 10M QPSK 1RB#25 23800CH Right hand touch cheek-Second Antenna**

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 711 \text{ MHz}$ ;  $\sigma = 0.858 \text{ S/m}$ ;  $\epsilon_r = 43.48$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

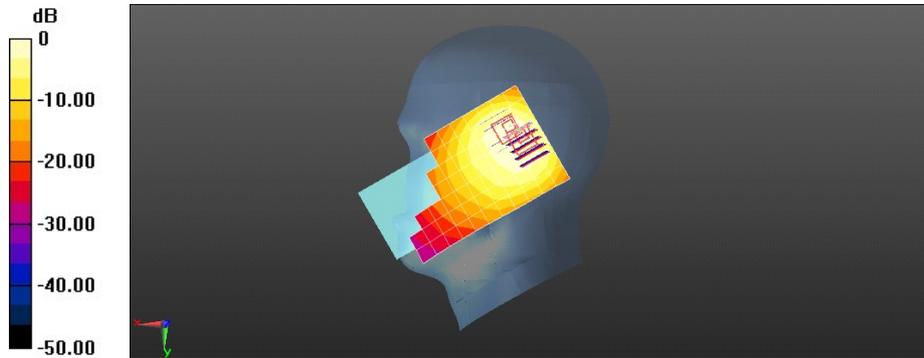
DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(10.2, 10.2, 10.2); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 1.10 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 = 23.30 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 2.06 W/kg  
**SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.515 W/kg**  
Maximum value of SAR (measured) = 1.31 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 23.30 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 1.41 W/kg  
**SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.419 W/kg**  
Maximum value of SAR (measured) = 0.903 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 LTE Band XVII QPSK 10M 1RB#49 Back Side with 15mm-Second Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.935$  S/m;  $\epsilon_r = 55.666$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.21, 6.21, 6.21); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.141 W/kg

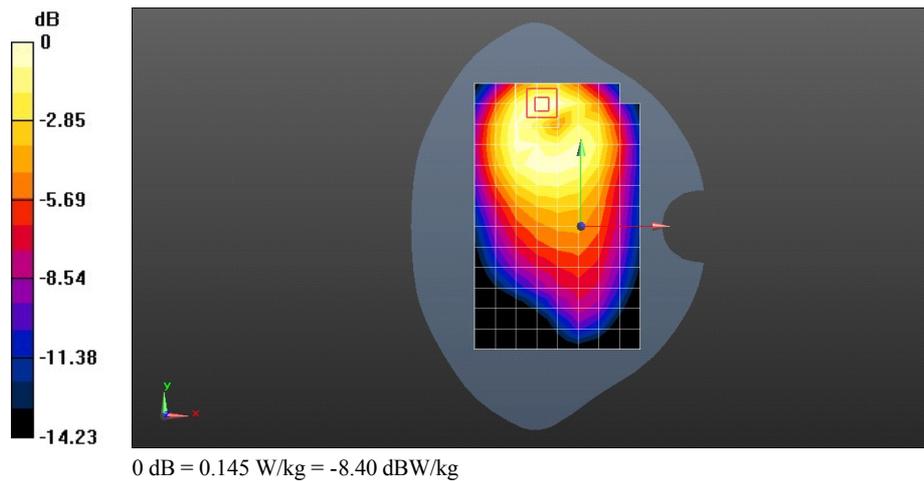
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.305 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.190 W/kg

**SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.075 W/kg**

Maximum value of SAR (measured) = 0.145 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**H1511 LTE Band XVII 10M QPSK 50%RB#25 23790CH Back side 10mm-Second Antenna**

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

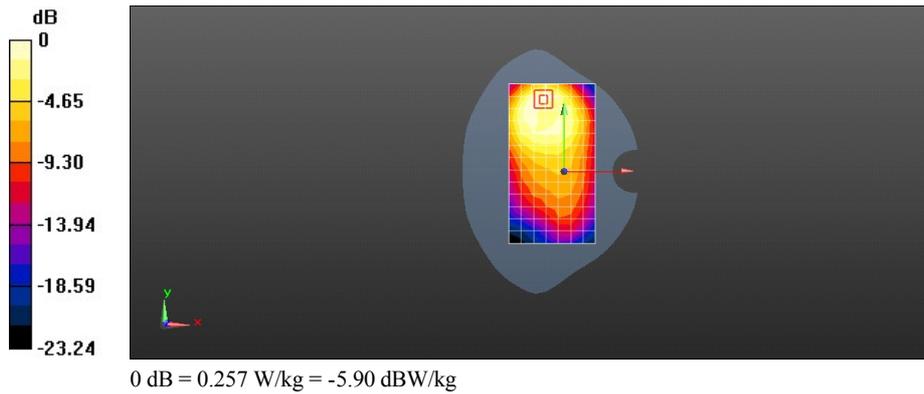
Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.931 \text{ S/m}$ ;  $\epsilon_r = 55.077$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.67, 9.67, 9.67); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (8x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 0.257 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 7.944 V/m; Power Drift = -0.11 dB  
Peak SAR (extrapolated) = 0.404 W/kg  
**SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.138 W/kg**  
Maximum value of SAR (measured) = 0.272 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 GSM850 251CH Right hand touch cheek-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.899$  S/m;  $\epsilon_r = 41.657$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.323 W/kg

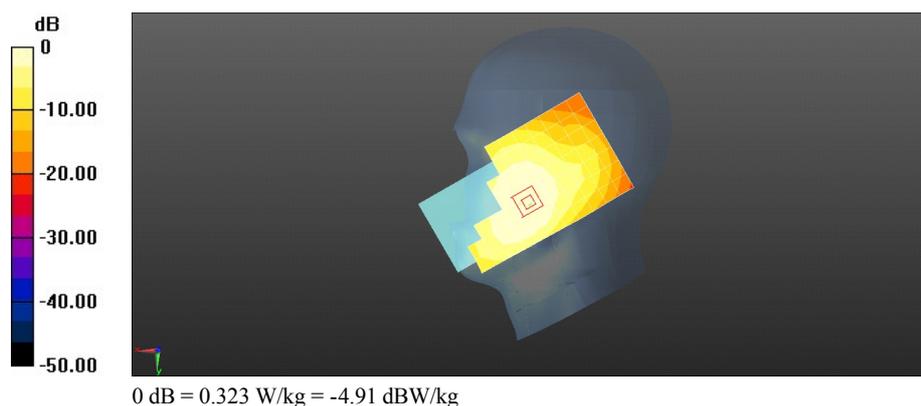
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.212 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.369 W/kg

**SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.235 W/kg**

Maximum value of SAR (measured) = 0.331 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 GSM850 190CH Back Side 15mm-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.257 W/kg

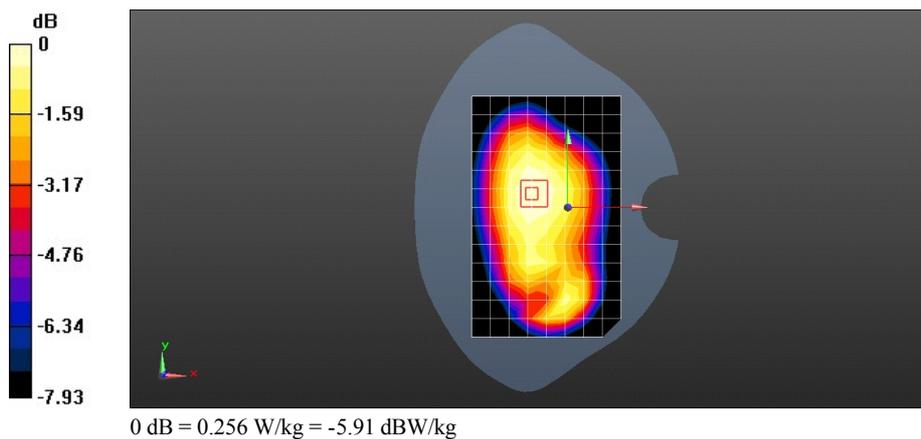
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 15.45 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.292 W/kg

**SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.178 W/kg**

Maximum value of SAR (measured) = 0.256 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 GSM850 GPRS 2TS 190CH Back Side 10mm-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.978$  S/m;  $\epsilon_r = 53.192$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.418 W/kg

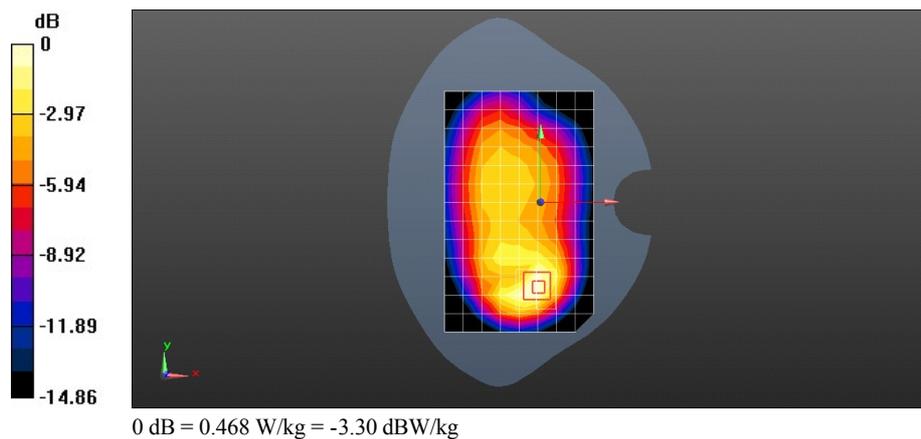
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 14.20 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.684 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.211 W/kg**

Maximum value of SAR (measured) = 0.468 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 GSM1900 810CH Right hand touch cheek-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 1.416$  S/m;  $\epsilon_r = 39.185$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.12, 8.12, 8.12); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.136 W/kg

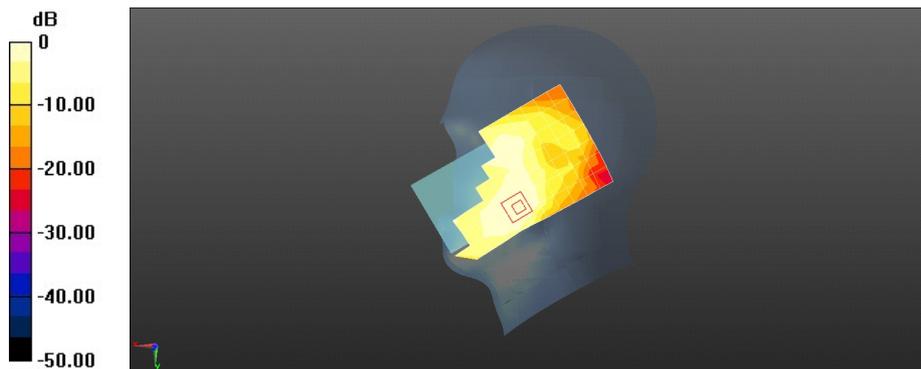
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.701 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.201 W/kg

**SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.089 W/kg**

Maximum value of SAR (measured) = 0.163 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 GSM1900 661CH Back Side with 15mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.502$  S/m;  $\epsilon_r = 52.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.705 W/kg

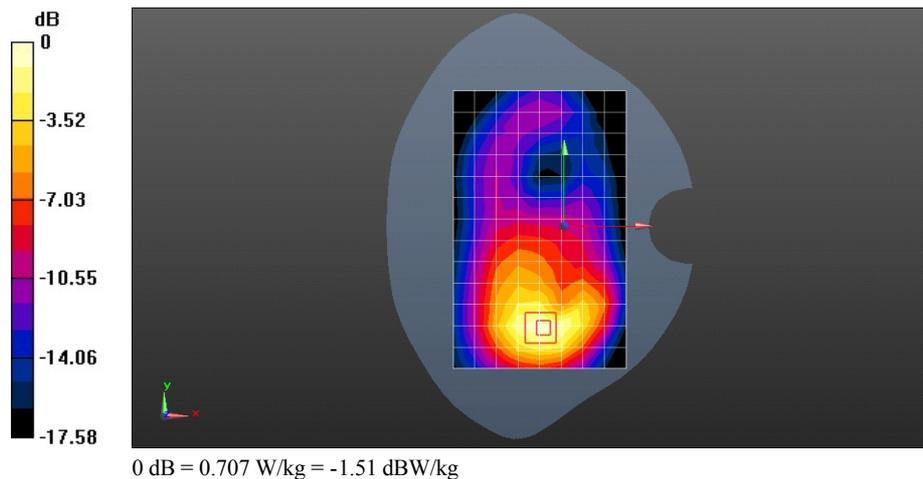
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.351 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.931 W/kg

**SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.354 W/kg**

Maximum value of SAR (measured) = 0.707 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 GSM1900 GPRS 2TS 512CH Bottom Side with 10mm-repeated-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.502$  S/m;  $\epsilon_r = 51.598$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 1.22 W/kg

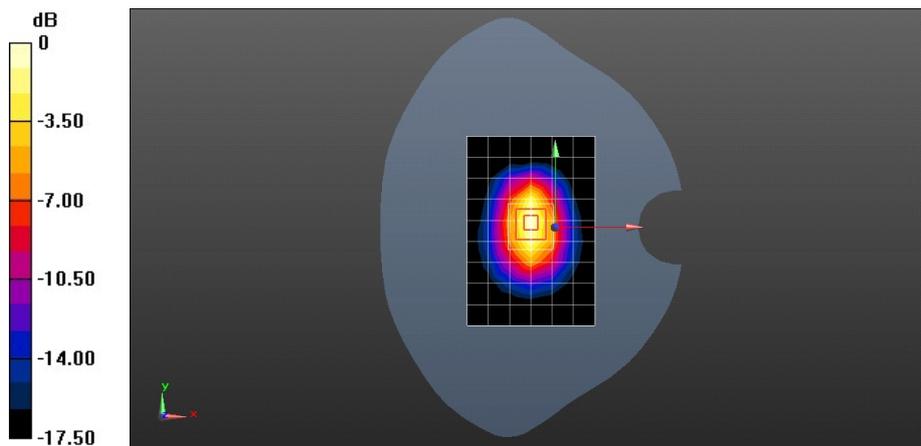
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 27.54 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 0.994 W/kg; SAR(10 g) = 0.534 W/kg**

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



0 dB = 1.22 W/kg = 0.88 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 GSM1900 GPRS 2TS 661CH Bottom Side with 0mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.551$  S/m;  $\epsilon_r = 51.718$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 3.00 W/kg

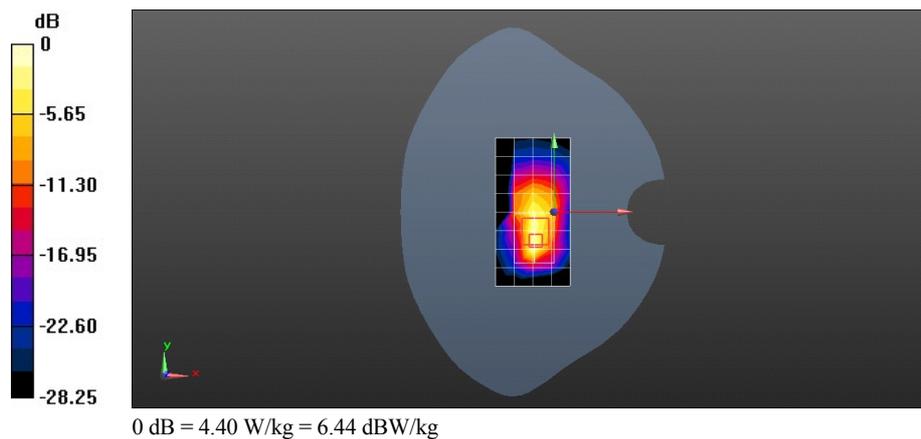
**Configuration/Body/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 33.91 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 7.43 W/kg

**SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.15 W/kg**

Maximum value of SAR (measured) = 4.40 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 UMTS Band II 9400CH Right hand touch check-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 39.302$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(8.12, 8.12, 8.12); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.139 W/kg

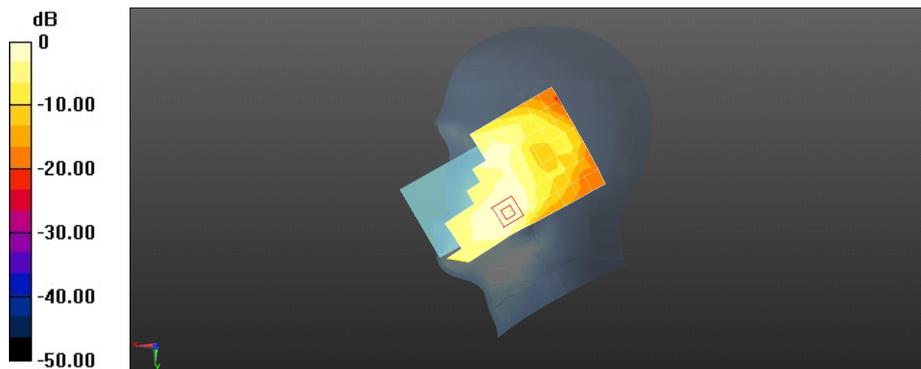
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.947 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.195 W/kg

**SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.088 W/kg**

Maximum value of SAR (measured) = 0.158 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 UMTS Band II 9400CH Front Side with 15mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.502$  S/m;  $\epsilon_r = 52.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.699 W/kg

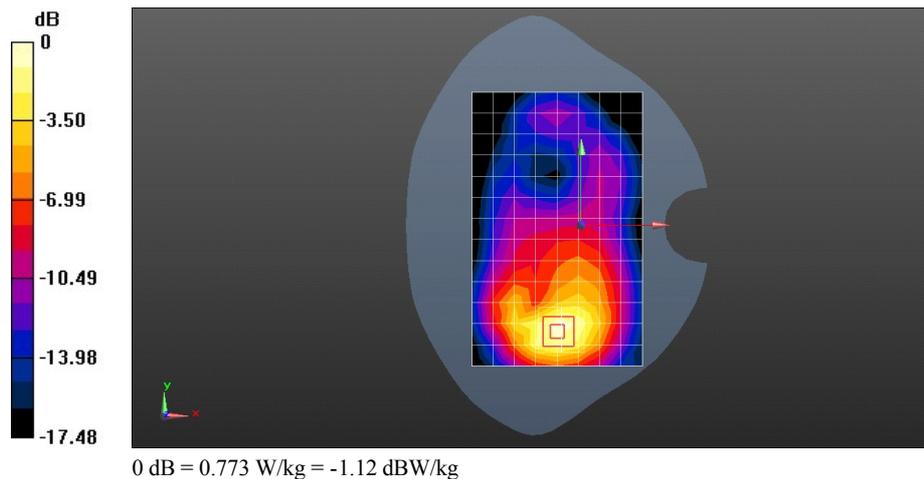
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.495 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.385 W/kg**

Maximum value of SAR (measured) = 0.773 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band II 9262CH Bottom Side with 10mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.504$  S/m;  $\epsilon_r = 51.591$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.954 W/kg

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

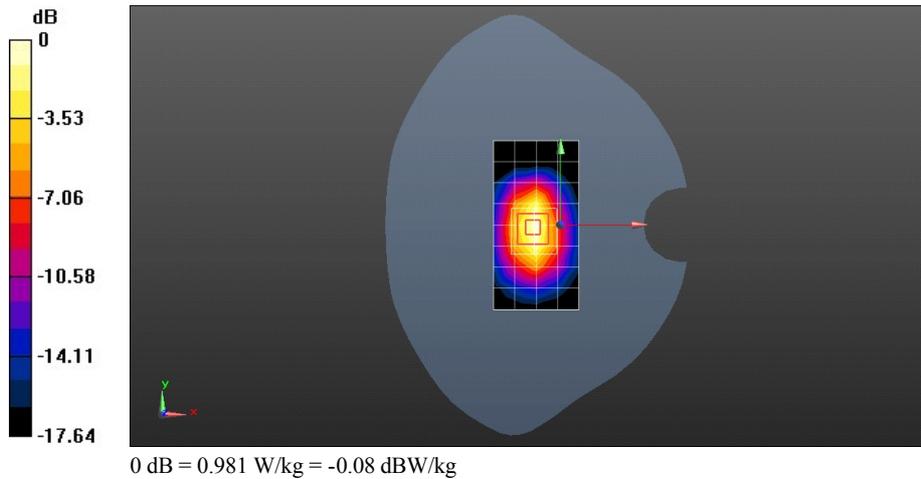
Reference Value = 24.49 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.434 W/kg**

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

Maximum value of SAR (measured) = 0.981 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band II 9400CH Bottom Side with 0mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.502$  S/m;  $\epsilon_r = 52.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 3.06 W/kg

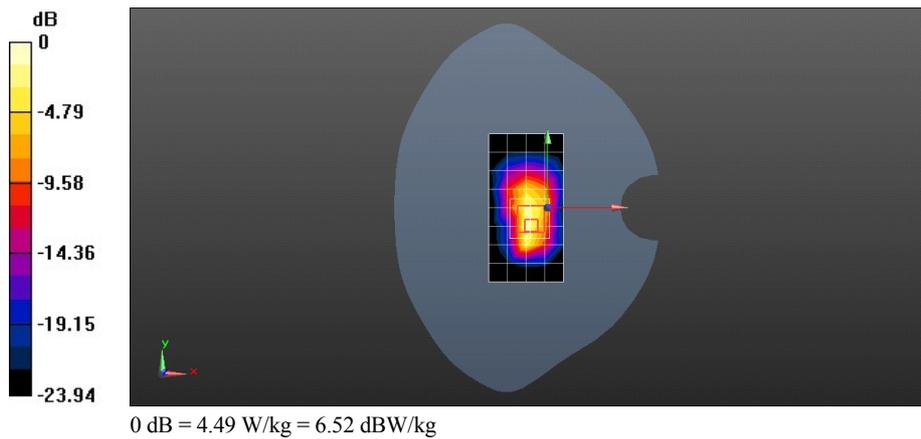
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 41.32 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 7.11 W/kg

**SAR(1 g) = 3.01 W/kg; SAR(10 g) = 1.38 W/kg**

Maximum value of SAR (measured) = 4.49 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band IV 1513CH Right hand touch cheek-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.352$  S/m;  $\epsilon_r = 39.025$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.25, 5.25, 5.25); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

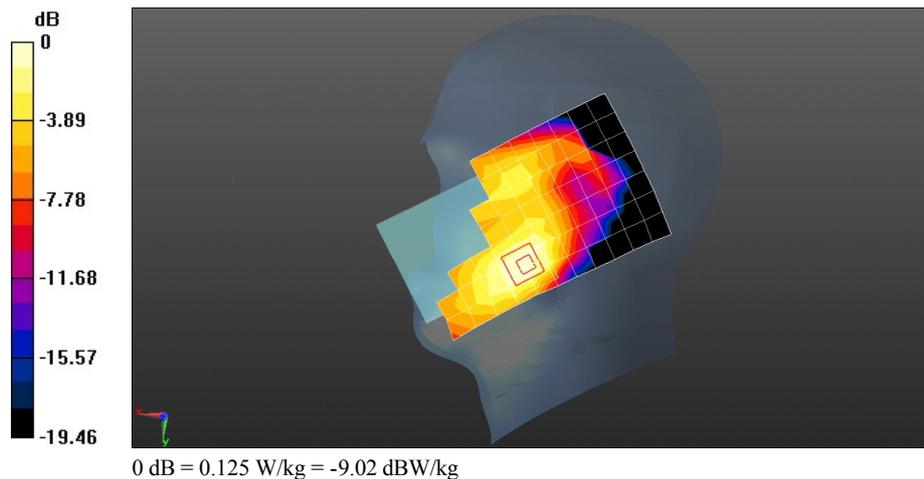
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.738 V/m; Power Drift = 0.17dB

Peak SAR (extrapolated) = 0.161 W/kg

**SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.068 W/kg**

Maximum value of SAR (measured) = 0.125 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band IV 1413CH Front Side with 15mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.514$  S/m;  $\epsilon_r = 51.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.93, 4.93, 4.93); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.556 W/kg

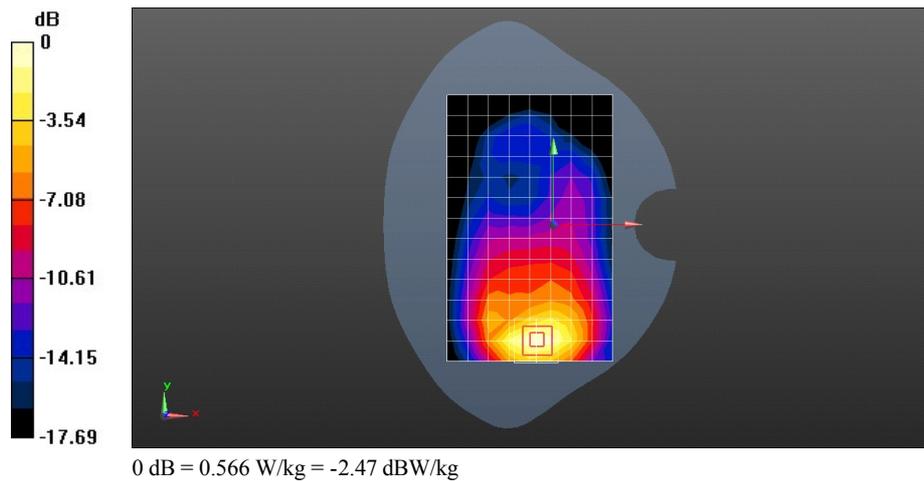
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.789 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.743 W/kg

**SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.273 W/kg**

Maximum value of SAR (measured) = 0.566 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band IV 1413CH Bottom Side-Repeated with 10mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.41$  S/m;  $\epsilon_r = 51.947$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.93, 4.93, 4.93); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.20 W/kg

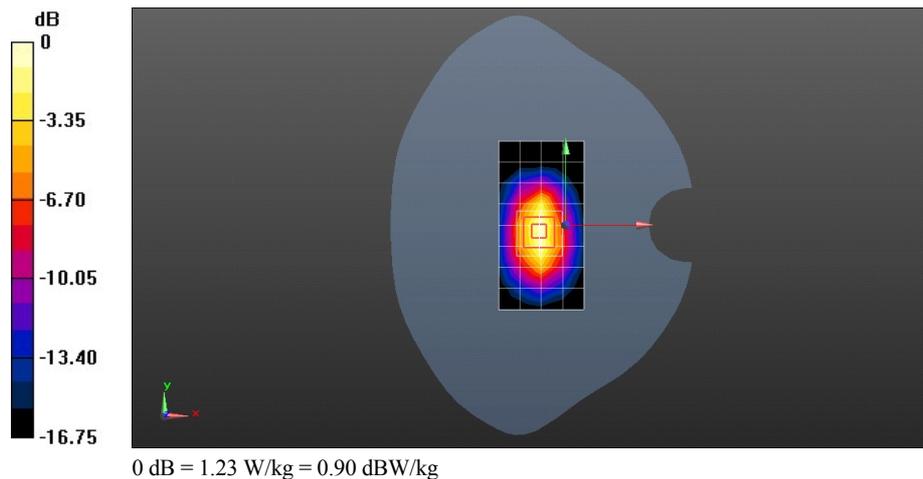
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 28.36 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 1 W/kg; SAR(10 g) = 0.548 W/kg**

Maximum value of SAR (measured) = 1.23 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band IV 1513CH Front Side with 0mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.532$  S/m;  $\epsilon_r = 51.507$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.93, 4.93, 4.93); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 8.20 W/kg

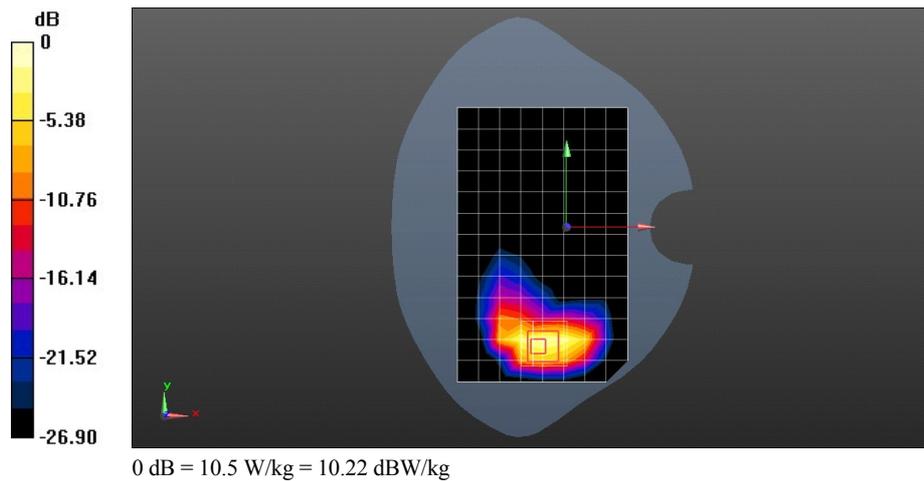
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 1.284 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(1 g) = 7.2 W/kg; SAR(10 g) = 3.2 W/kg**

Maximum value of SAR (measured) = 10.5 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### H1511 UMTS Band V 4233CH Right hand touch check-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.898$  S/m;  $\epsilon_r = 41.674$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.348 W/kg

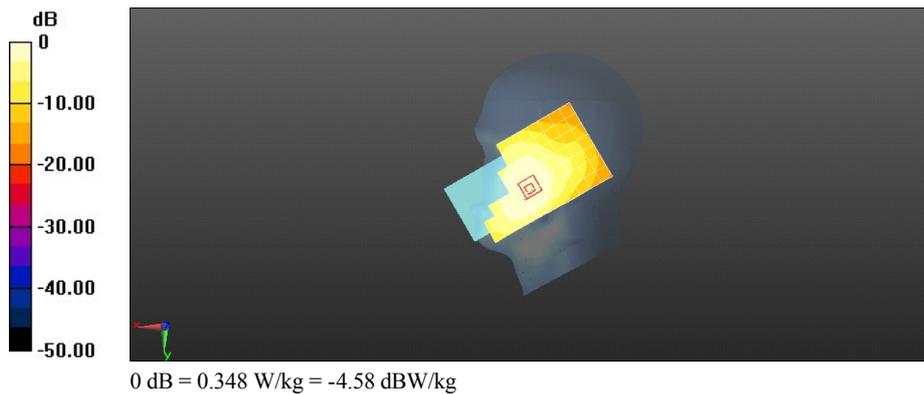
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.706 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.400 W/kg

**SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.258 W/kg**

Maximum value of SAR (measured) = 0.358 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 UMTS Band V 4182CH Back Side 15mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**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) = 0.287 W/kg

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

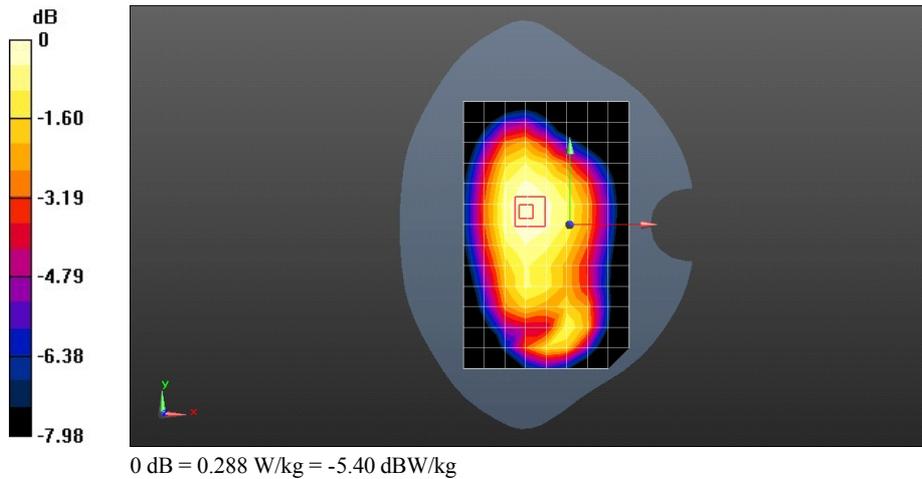
Reference Value = 16.31 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.330 W/kg

**SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.201 W/kg**

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

Maximum value of SAR (measured) = 0.288 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 UMTS Band V 4182CH Back Side 10mm-Main antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

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;  $\sigma = 0.983$  S/m;  $\epsilon_r = 54.171$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**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) = 0.436 W/kg

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

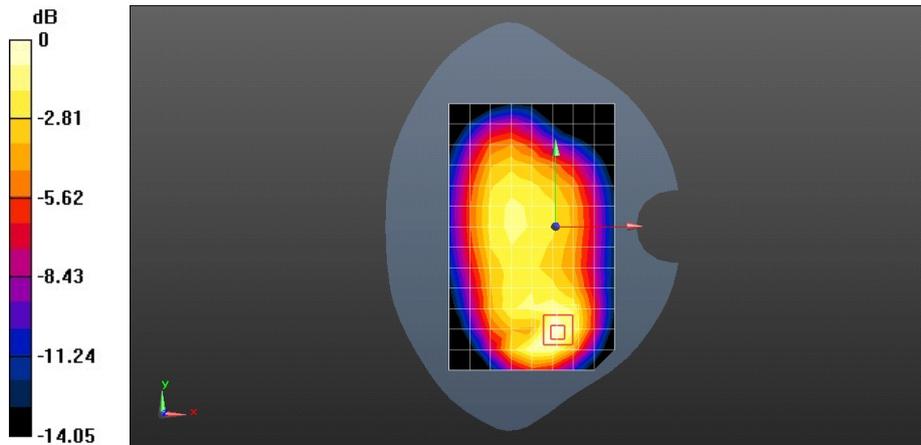
Reference Value = 17.20 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.671 W/kg

**SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.221 W/kg**

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

Maximum value of SAR (measured) = 0.460 W/kg



0 dB = 0.460 W/kg = -3.37 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 CDMA BC0 RC3 SO55 777CH Right hand touch cheek-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-CDMA2000 (0); Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.937$  S/m;  $\epsilon_r = 42.368$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.92, 9.92, 9.92); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 0.400 W/kg

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

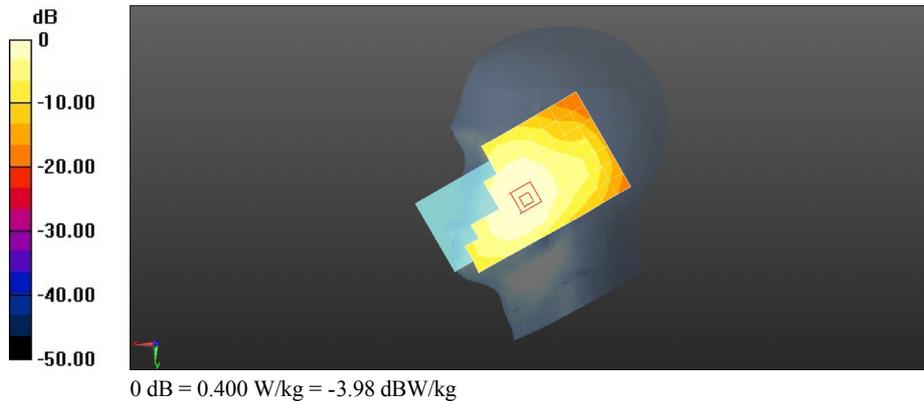
Reference Value = 9.045 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.445 W/kg

**SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.288 W/kg**

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

Maximum value of SAR (measured) = 0.403 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## H1511 CDMA BC0 RC3 SO32 384CH Back Side 15mm-Main Antenna

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.968$  S/m;  $\epsilon_r = 55.008$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.358 W/kg

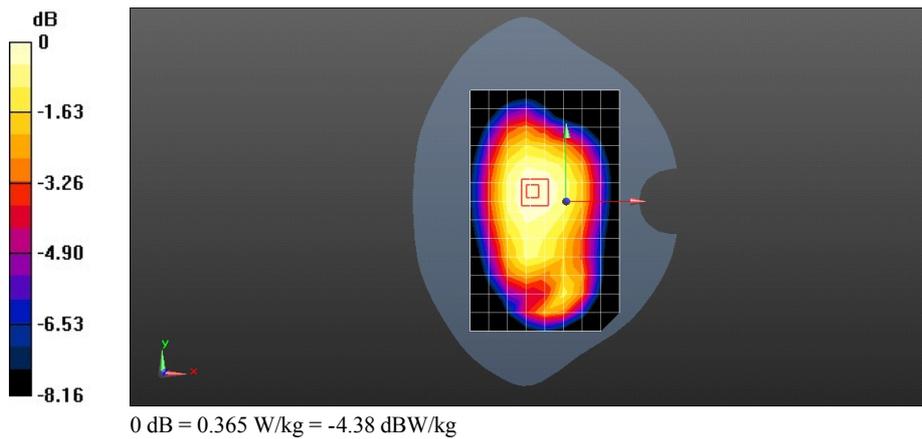
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.88 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.417 W/kg

**SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.254 W/kg**

Maximum value of SAR (measured) = 0.365 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**H1511 CDMA BC0 Rev.0 384CH Back Side 10mm-Main Antenna**

**DUT: H1511; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 837 \text{ MHz}$ ;  $\sigma = 0.984 \text{ S/m}$ ;  $\epsilon_r = 54.163$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-9-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1236; Calibrated: 2014-11-13
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.640 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 18.16 V/m; Power Drift = 0.07 dB  
 Peak SAR (extrapolated) = 0.989 W/kg  
**SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.315 W/kg**  
 Maximum value of SAR (measured) = 0.690 W/kg

