



Appendix B. SAR Measurement Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

HWD35 UMTS Band II 9400CH Top Side 10mm

DUT: HWD35; Type: Mobile WiFi; Serial: SAR3

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.565$ S/m; $\epsilon_r = 51.921$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.95, 7.95, 7.95); Calibrated: 2016/9/29;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2016/9/28
- ε Phantom: SAM6; Type: QD 000 P40 CD; Serial: 1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (5x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.03 W/kg

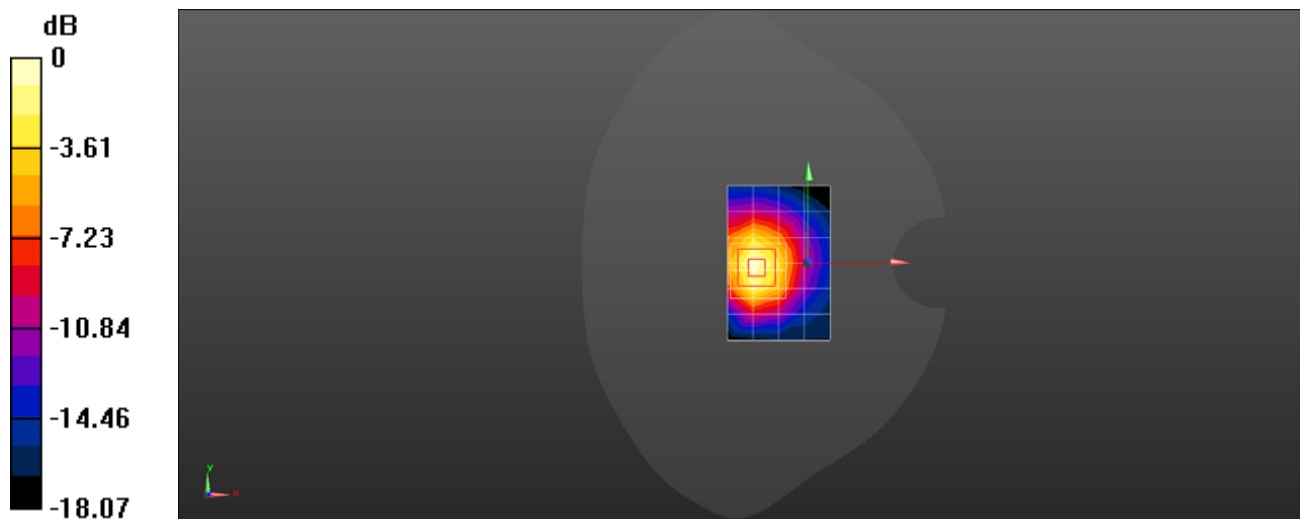
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.10 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.394 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.32 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

HWD35 UMTS Band II 9400CH Top Side 16mm

DUT: HWD35; Type: Mobile WiFi; Serial: SAR3

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.565$ S/m; $\epsilon_r = 51.921$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7381; ConvF(7.95, 7.95, 7.95); Calibrated: 2016/9/29;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1492; Calibrated: 2016/9/28
- ε Phantom: SAM6; Type: QD 000 P40 CD; Serial: 1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (5x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.495 W/kg

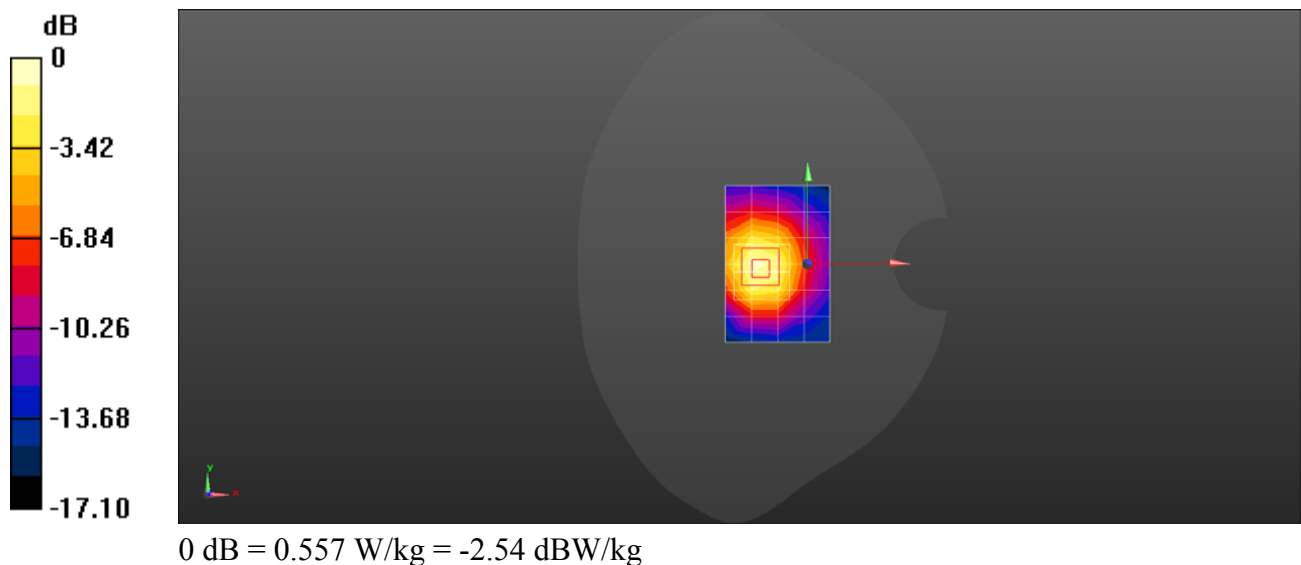
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.11 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.557 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

HWD35 UMTS Band V 4233CH Back Side 10mm with repeated

DUT: HWD35; Type: Mobile WiFi; Serial: SAR3

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

Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.984 \text{ S/m}$; $\epsilon_r = 52.608$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/6/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn914; Calibrated: 2016/1/7
- ε Phantom: SAM6; Type: QD 000 P40 CD; Serial: 1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.25 W/kg

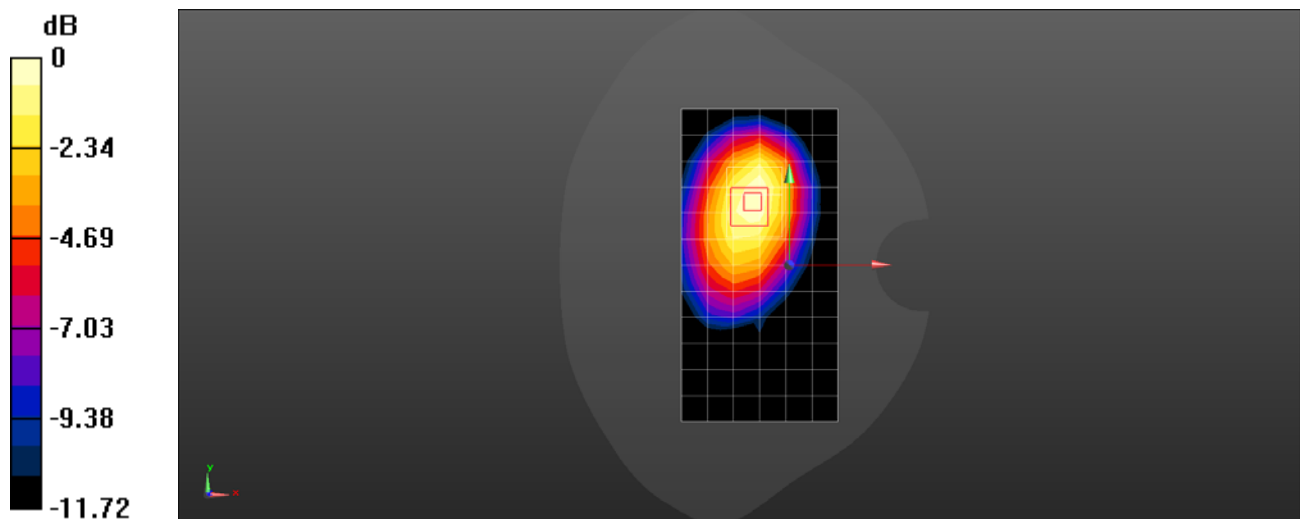
Configuration/Body/Zoom Scan (5x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.11 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.967 W/kg ; SAR(10 g) = 0.669 W/kg

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



0 dB = $1.23 \text{ W/kg} = 0.91 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

HWD35 LTE Band V 10M QPSK 1RB 25 offset 20600CH Back Side 10mm

DUT: HWD35; Type: Mobile WiFi; Serial: SAR3

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

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.983 \text{ S/m}$; $\epsilon_r = 52.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7346; ConvF(9.87, 9.87, 9.87); Calibrated: 2016/6/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn914; Calibrated: 2016/1/7
- ε Phantom: SAM6; Type: QD 000 P40 CD; Serial: 1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.21 W/kg

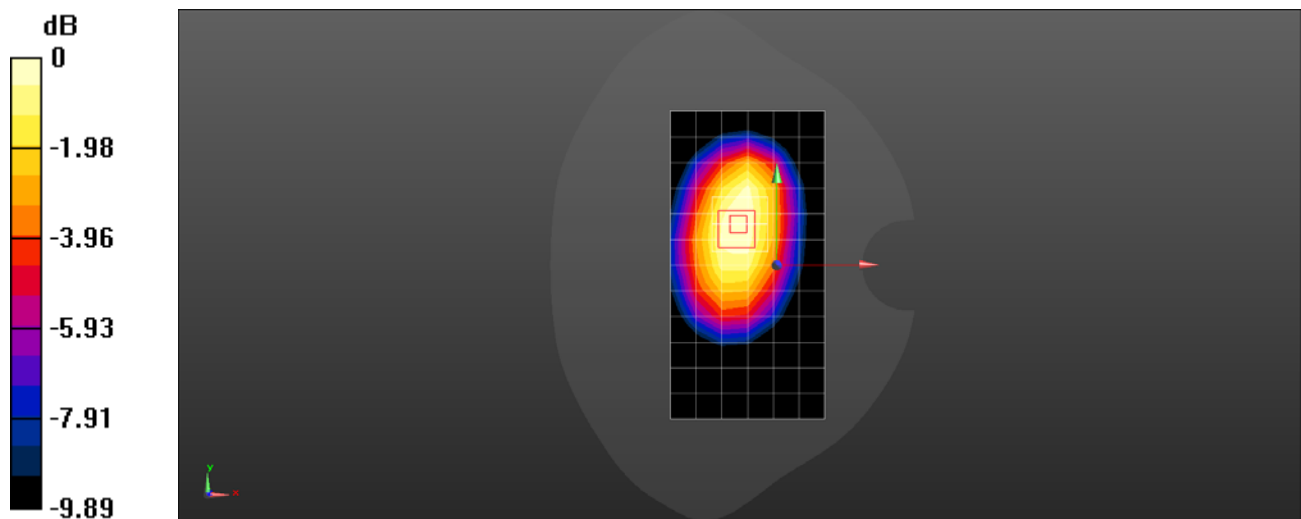
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.50 V/m ; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 1.02 W/kg ; SAR(10 g) = 0.743 W/kg

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



$0 \text{ dB} = 1.23 \text{ W/kg} = 0.90 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

HWD35 LTE Band XVII 10M QPSK 1RB 0 offset 23790CH Back Side 10mm with battery2

DUT: HWD35; Type: Mobile WiFi; 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: $f = 710 \text{ MHz}$; $\sigma = 0.935 \text{ S/m}$; $\epsilon_r = 54.998$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7346; ConvF(10.06, 10.06, 10.06); Calibrated: 2016/6/23;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn914; Calibrated: 2016/1/7
- ε Phantom: SAM6; Type: QD 000 P40 CD; Serial: 1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.570 W/kg

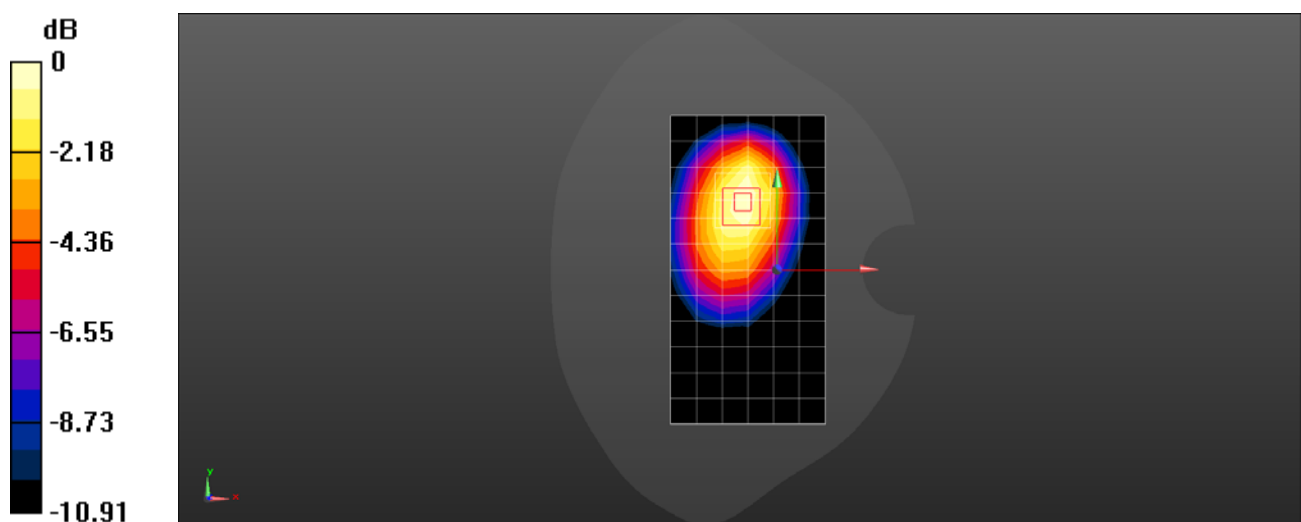
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.82 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.626 W/kg

SAR(1 g) = 0.453 W/kg ; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

HWD35 WiFi 2.4G 802.11n MIMO 40M 6CH Front Side 10mm

DUT: HWD35; Type: Mobile WiFi; Serial: SAR3

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.936$ S/m; $\epsilon_r = 53.733$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(6.96, 6.96, 6.96); Calibrated: 2016/4/26;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn914; Calibrated: 2016/1/7
- ε Phantom: SAM6; Type: QD 000 P40 CD; Serial: 1892
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (8x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.289 W/kg

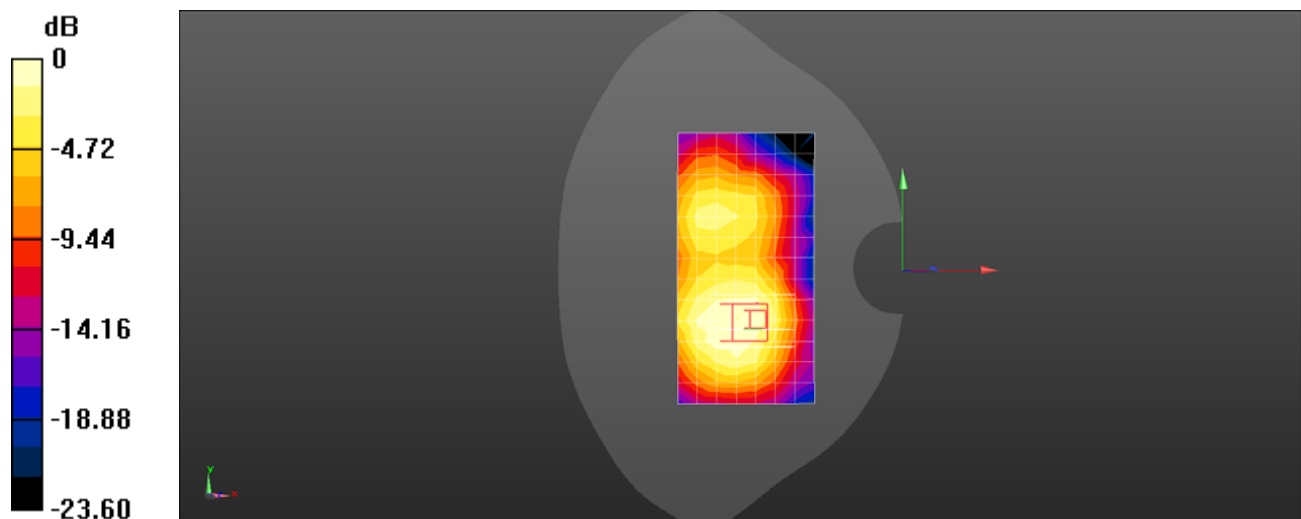
Configuration/Body/Zoom Scan (9x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.340 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.306 W/kg



0 dB = 0.306 W/kg = -5.14 dBW/kg