



## **Appendix B. SAR Measurement Plots**

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| <b>WiFi 2.4G Body</b>    |
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Test Laboratory: HUAWEI SAR/HAC Lab

## BG2-W09 WiFi2.4G 11g 1CH Back side 0mm

**DUT: BG2-W09; Type: Mediapad; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.996$  S/m;  $\epsilon_r = 52.399$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

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

**Configuration/Body/Area Scan (12x13x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 1.13 W/kg

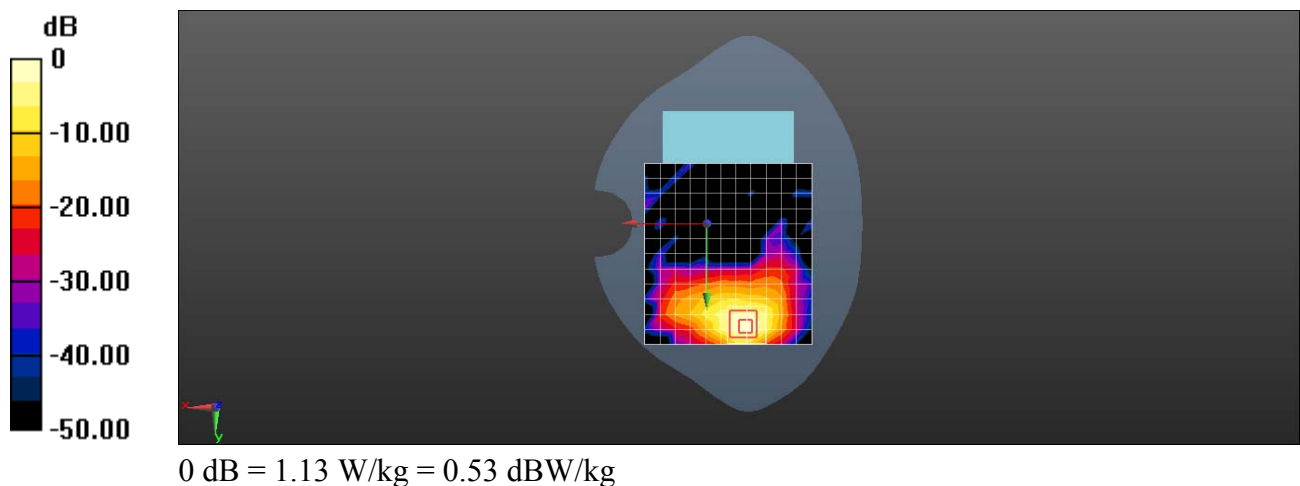
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.2124 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.02 W/kg

**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.398 W/kg**

Maximum value of SAR (measured) = 1.59 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## **BG2-W09 WiFi 5G 802.11n 40M 62CH Top Side 0mm**

**DUT: BG2-W09; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5310 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5310$  MHz;  $\sigma = 5.371$  S/m;  $\epsilon_r = 48.735$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

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

**Configuration/Body/Area Scan (7x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.39 W/kg

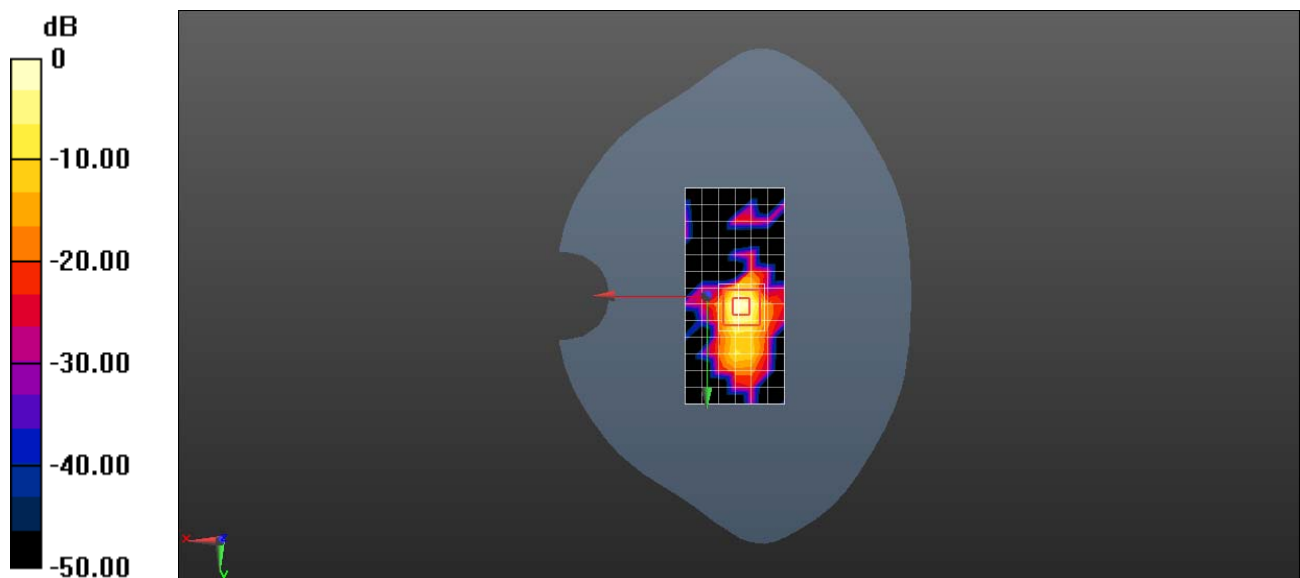
**Configuration/Body/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 8.716 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.75 W/kg

**SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.170 W/kg**

Maximum value of SAR (measured) = 2.38 W/kg



0 dB = 1.39 W/kg = 1.43 dBW/kg