

## **Appendix A: SAR Plots of System Verification**

Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

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### System Check-D2450V2\_H2450

**DUT: Dipole 2450 MHz D2450V2 SN:1014**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: H2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.872$  S/m;  $\epsilon_T = 38.152$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.98, 7.98, 7.98) @ 2450 MHz; Calibrated: 2023/6/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2023/7/6
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250 mW/Area Scan (71x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 21.0 W/kg

**Pin=250 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 108.8 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 25.8 W/kg  
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.79 W/kg  
Smallest distance from peaks to all points 3 dB below = 9 mm  
Ratio of SAR at M2 to SAR at M1 = 48.8%  
Maximum value of SAR (measured) = 20.9 W/kg

