

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

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

Date: 2024/2/21

**System Check-D2450V2\_H2450**

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

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.788$  S/m;  $\epsilon_r = 39.953$ ;  $\rho = 1000$  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 (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 21.5 W/kg

**Pin=250 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 112.6 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 27.3 W/kg  
**SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.83 W/kg**  
Smallest distance from peaks to all points 3 dB below = 9 mm  
Ratio of SAR at M2 to SAR at M1 = 47%  
Maximum value of SAR (measured) = 21.7 W/kg

