



# **Appendix A**

## **Detailed System Validation Results**

System Performance Check 2450MHz Body
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Test Laboratory: SGS-SAR Lab

## System Performance Check 2450MHz Body

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 733**

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

Medium: MSL2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.2, 4.2, 4.2); Calibrated: 2012-11-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2012-11-27
- Phantom: SAM 1; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**d=10mm, Pin=250mW/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 10.2 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 86.1 V/m; Power Drift = -0.171 dB  
Peak SAR (extrapolated) = 30.2 W/kg  
**SAR(1 g) = 13.4 mW/g; SAR(10 g) = 5.95 mW/g**  
Maximum value of SAR (measured) = 15.0 mW/g

