

# Appendix A

## Detailed System Check Results

1. System Performance Check
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System Performance Check 2450 MHz Head
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Test Laboratory: SGS-SAR Lab

## System Performance Check 2450MHz Head

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

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.794$  S/m;  $\epsilon_r = 40.065$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(7.32, 7.85, 7.73); Calibrated: 2024/7/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2025/1/20
- Phantom: SAM 1; Type: SAM; Serial: 1912
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/d=10mm, Pin=250mW/Area Scan (6x8x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.4 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.42 V/m; Power Drift = -0.09 dB

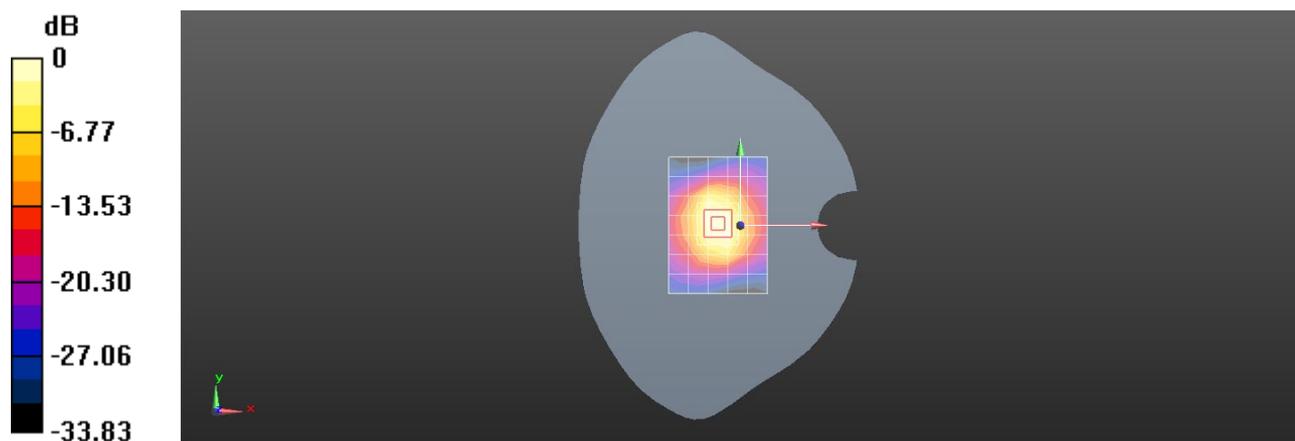
Peak SAR (extrapolated) = 22.3 W/kg

**SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.93 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 12.4 W/kg = 10.92 dBW/kg