

# Appendix A

## Detailed System Check Results

### 1. System Performance Check

System Performance Check 1800 MHz

System Performance Check 2450 MHz

System Performance Check 5250 MHz

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**System Performance Check 1800MHz**

Communication System: ; Frequency: 1800.000

Medium: HSL. Medium parameters used:  $f = 1800.000$  MHz;  $\sigma = 1.37$  S/m;  $\epsilon_r = 40.0$ 

DASY6 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(7.63, 7.94, 7.8); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2025-02-17
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
- Measurement Software: cDASY6 V16.4.0.5005

**Area Scan (40.0 mm x 90.0 mm):** Measurement Grid: 10.0 mm x 15.0 mm

SAR (1g) = 9.21 W/kg; SAR (10g) = 4.91 W/kg;

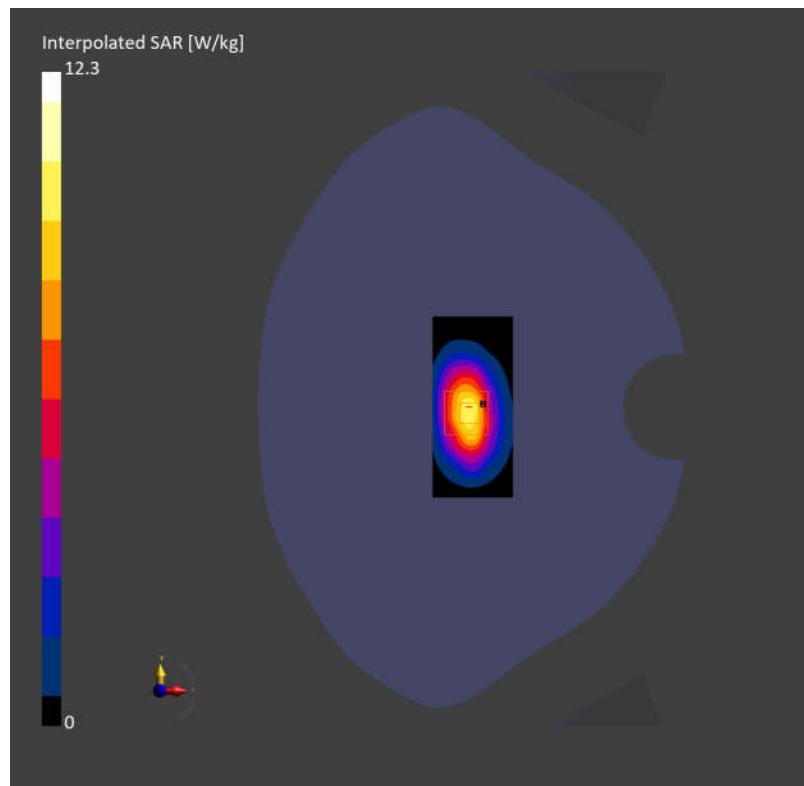
**Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm):** Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = -0.13 dB

**SAR (1g) = 9.69 W/kg; SAR (10g) = 5.28 W/kg;**

M2/M1 [%] 86.6

Dist 3dB Peak [mm] 9.6



**System Performance Check 2450MHz**

Communication System: ; Frequency: 2450.000

Medium: HSL. Medium parameters used:  $f = 2450.000$  MHz;  $\sigma = 1.82$  S/m;  $\epsilon_r = 39.2$ 

DASY6 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(6.91, 7.19, 7.06); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2025-02-17
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
- Measurement Software: cDASY6 V16.4.0.5005

**Area Scan (40.0 mm x 96.0 mm):** Measurement Grid: 10.0 mm x 12.0 mm

SAR (1g) = 13.1 W/kg; SAR (10g) = 5.97 W/kg;

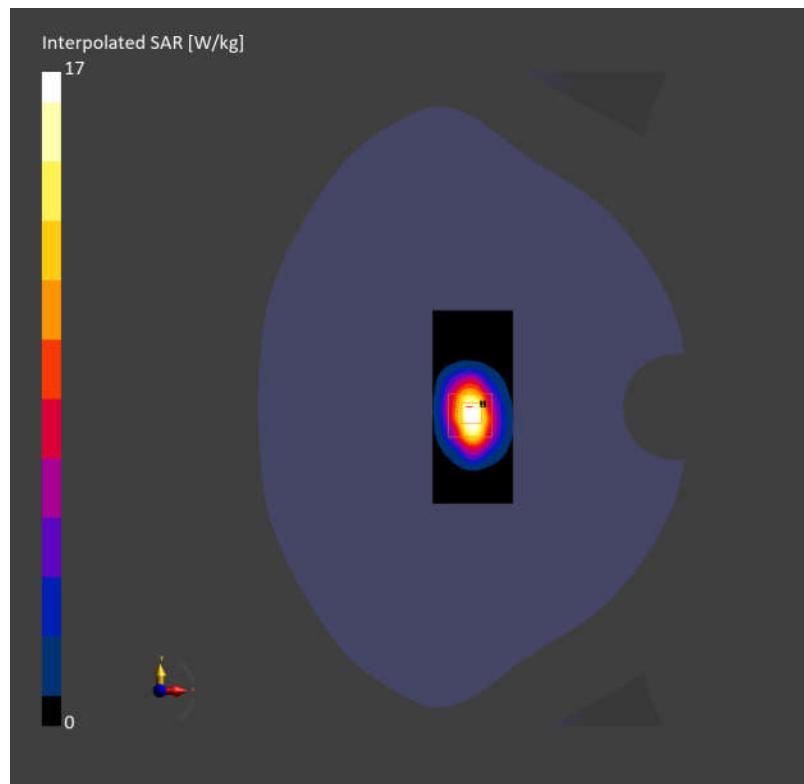
**Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm):** Measurement Grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = -0.18 dB

**SAR (1g) = 13.4 W/kg; SAR (10g) = 6.36 W/kg;**

M2/M1 [%] 82.9

Dist 3dB Peak [mm] 8.6



**System Performance Check 5250MHz**

Communication System: ; Frequency: 5250.000

Medium: HSL. Medium parameters used:  $f = 5250.000$  MHz;  $\sigma = 4.74$  S/m;  $\epsilon_r = 36.5$ 

DASY6 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(5.57, 5.79, 5.69); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1740; Calibrated: 2025-02-17
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2031
- Measurement Software: cDASY6 V16.4.0.5005

**Area Scan (40.0 mm x 80.0 mm):** Measurement Grid: 10.0 mm x 10.0 mm

SAR (1g) = 7.21 W/kg; SAR (10g) = 2.12 W/kg;

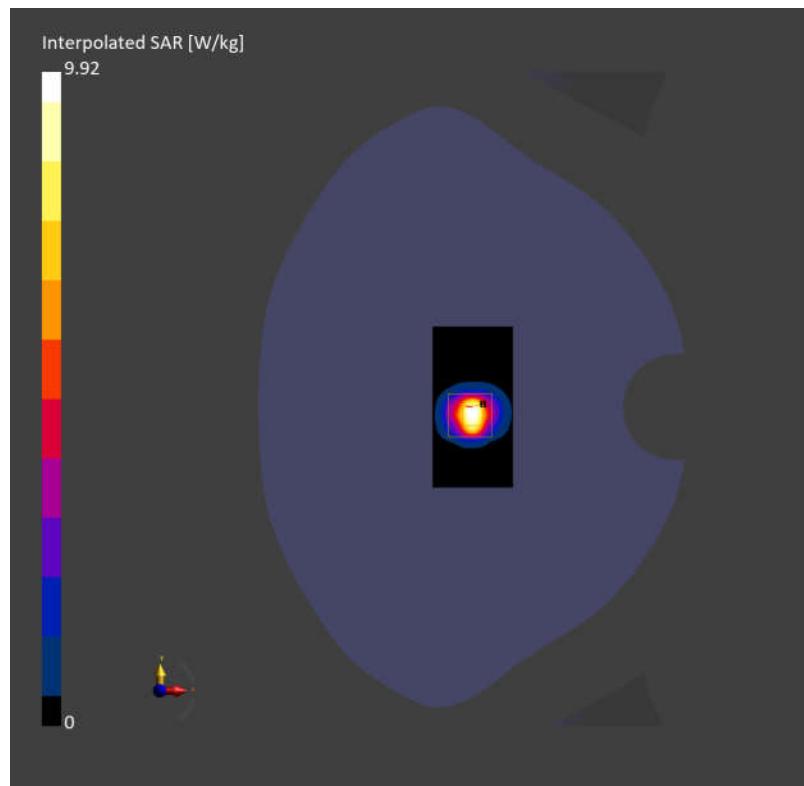
**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm):** Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.09 dB

**SAR (1g) = 7.83 W/kg; SAR (10g) = 2.27 W/kg;**

M2/M1 [%] 68.1

Dist 3dB Peak [mm] 6.5



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