

Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 2450 MHz
System Performance Check 5250 MHz
System Performance Check 5600 MHz
System Performance Check 5750 MHz

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SGS-SAR LabDate: 2024-12-16

System Performance Check 2450MHz Head

D2450V2-SN 733

Communication System: D2450; Frequency: 2450.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 2450.000$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 39.7$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(7.5, 7.5, 7.5); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
- Measurement Software: cDASY8 V16.4.0.5005

Area Scan (96.0 mm x 120.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 12.8 W/kg; SAR (10g) = 5.80 W/kg;

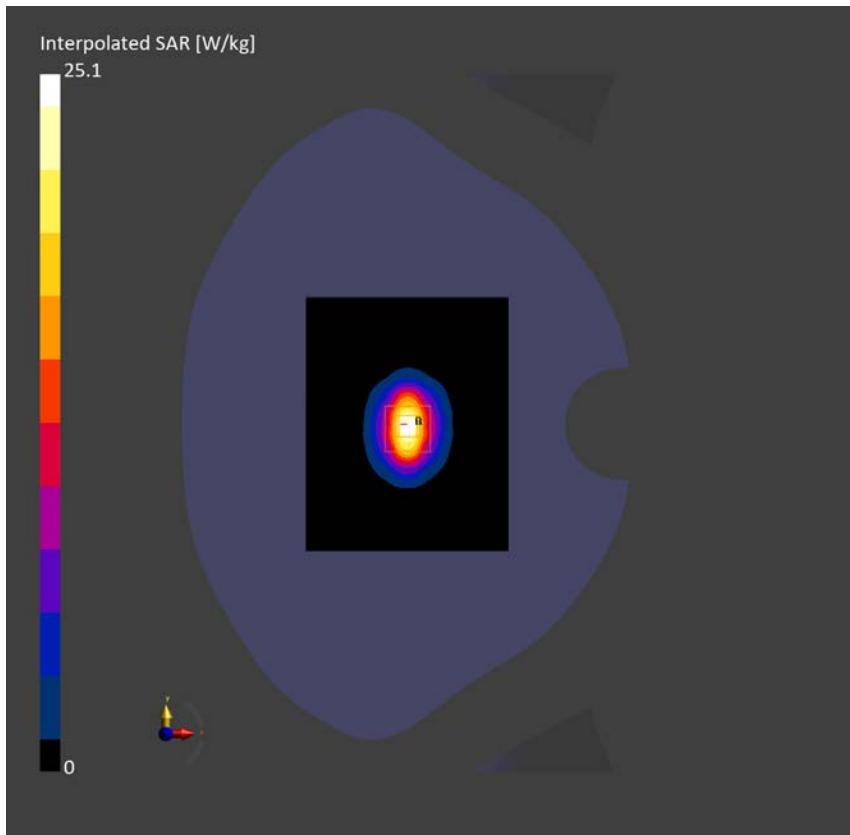
Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = 0.01 dB

SAR (1g) = 12.8 W/kg; SAR (10g) = 6.12 W/kg;

M2/M1 [%]=51.2

Dist 3dB Peak [mm]=9.0



SGS-SAR LabDate: 2024-12-13

System Performance Check 5250 MHz Head

D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5250.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 5250.000$ MHz; $\sigma = 4.76$ S/m; $\epsilon_r = 36.2$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(5.21, 5.21, 5.21); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
- Measurement Software: cDASY8 V16.4.0.5005

Area Scan (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 7.49 W/kg; SAR (10g) = 2.16 W/kg;

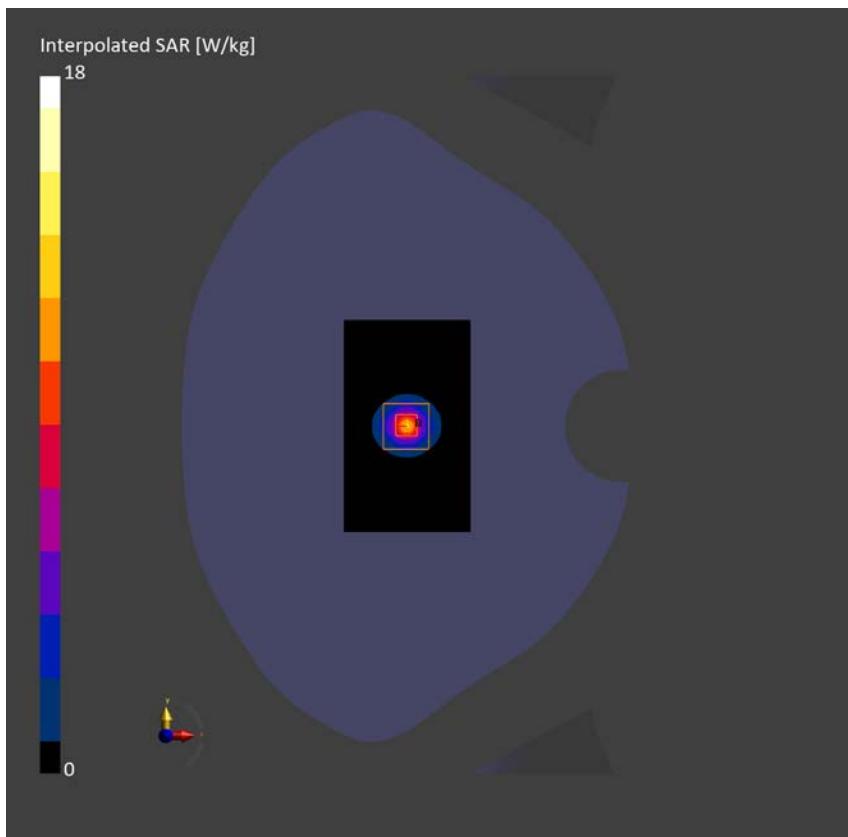
Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.01 dB

SAR (1g) = 8.07 W/kg; SAR (10g) = 2.31 W/kg;

M2/M1 [%]=62.6

Dist 3dB Peak [mm]=7.3



SGS-SAR LabDate: 2024-12-13

System Performance Check 5600 MHz Head

D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5600.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 5600.000$ MHz; $\sigma = 5.14$ S/m; $\epsilon_r = 35.3$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(4.6, 4.6, 4.6); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
- Measurement Software: cDASY8 V16.4.0.5005

Area Scan (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 7.66 W/kg; SAR (10g) = 2.18 W/kg;

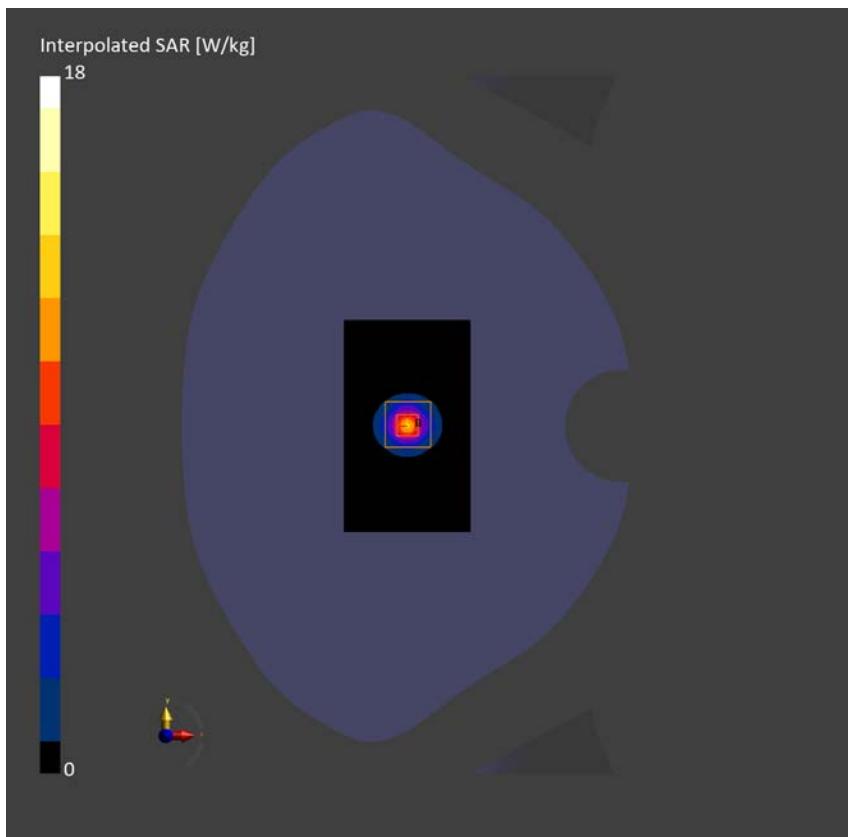
Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.08 dB

SAR (1g) = 8.21 W/kg; SAR (10g) = 2.34 W/kg;

M2/M1 [%]=60.4

Dist 3dB Peak [mm]=7.2



SGS-SAR LabDate: 2024-12-13

System Performance Check 5750 MHz Head

D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5750.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 5750.000$ MHz; $\sigma = 5.34$ S/m; $\epsilon_r = 35.1$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(4.73, 4.73, 4.73); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1803; Calibrated: 2024-08-08
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2146
- Measurement Software: cDASY8 V16.4.0.5005

Area Scan (60.0 mm x 100.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 7.28 W/kg; SAR (10g) = 2.06 W/kg;

Zoom Scan (24.0 mm x 24.0 mm x 22.0 mm): Measurement Grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.01 dB

SAR (1g) = 7.48 W/kg; SAR (10g) = 2.15 W/kg;

M2/M1 [%]=58.8

Dist 3dB Peak [mm]=7.3

