

Appendix D

Detailed System Check Results

1. System Performance Check
System Performance Check 835 MHz Head
System Performance Check 1750 MHz Head
System Performance Check 1900 MHz Head
System Performance Check 2450 MHz Head
System Performance Check 3500 MHz Head
System Performance Check 3700 MHz Head



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System Performance Check 835MHz Head**D835V2-SN 4d105**

Communication System: ; Frequency: 835.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 835.000$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 42.5$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(9.60, 9.60, 9.60); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
- Measurement Software: cDASY8 V16.2.4.2524

Area Scan (45.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 2.38 W/kg; SAR (10g) = 1.56 W/kg;

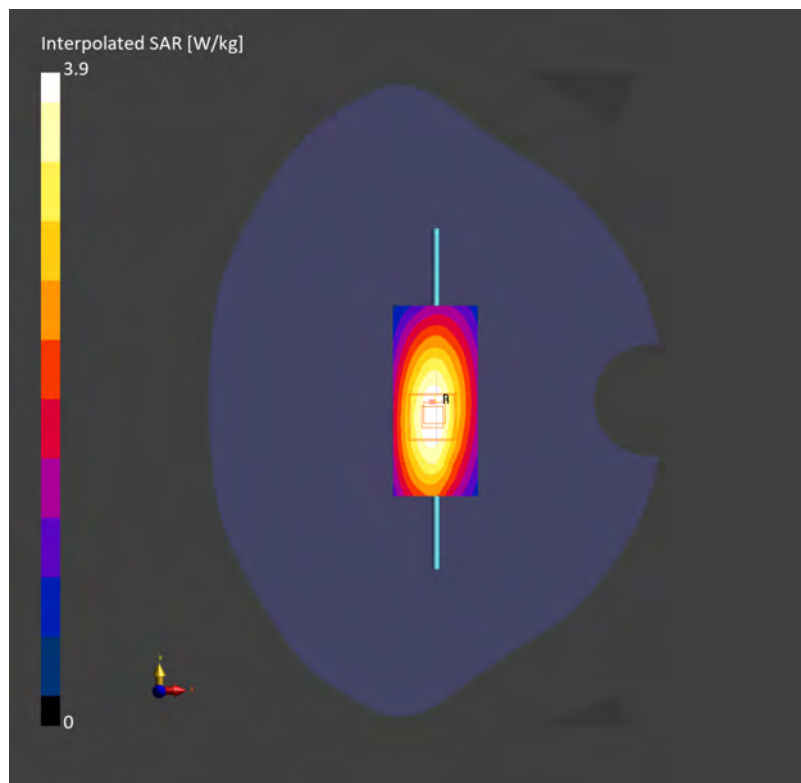
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.02 dB

SAR (1g) = 2.51 W/kg; SAR (10g) = 1.58 W/kg;

M2/M1 [%]=89.3

Dist 3dB Peak [mm]=16.8



System Performance Check 1750MHz Head**D1750V2-SN 1149**

Communication System: ; Frequency: 1750.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 1750.000$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 40.5$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(8.19, 8.19, 8.19); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
- Measurement Software: cDASY8 V16.2.4.2524

Area Scan (45.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 9.02 W/kg; SAR (10g) = 4.88 W/kg;

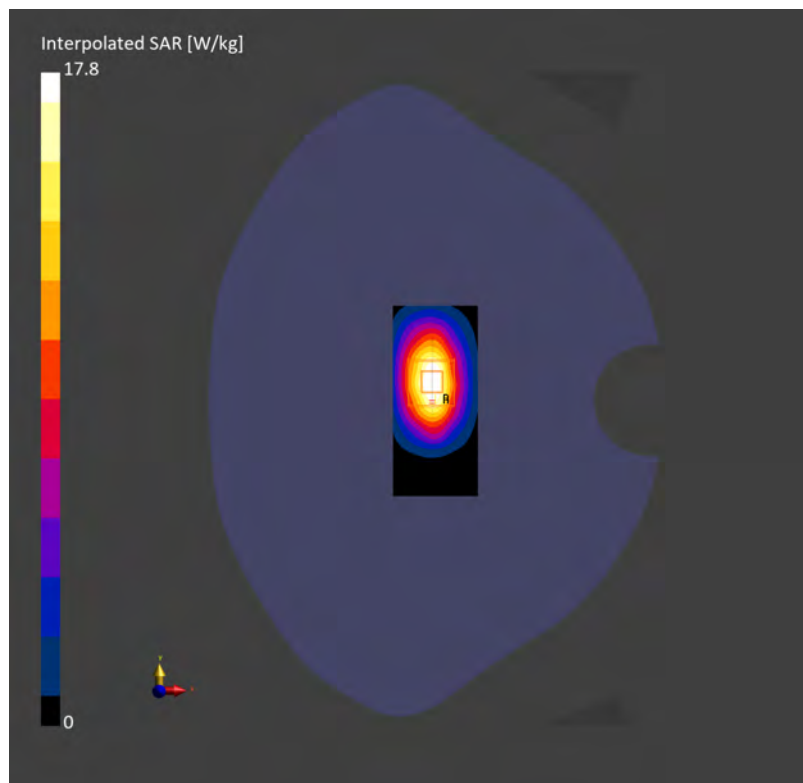
Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.03 dB

SAR (1g) = 9.16 W/kg; SAR (10g) = 4.87 W/kg;

M2/M1 [%]=80.2

Dist 3dB Peak [mm]=10.8



System Performance Check 1900MHz Head

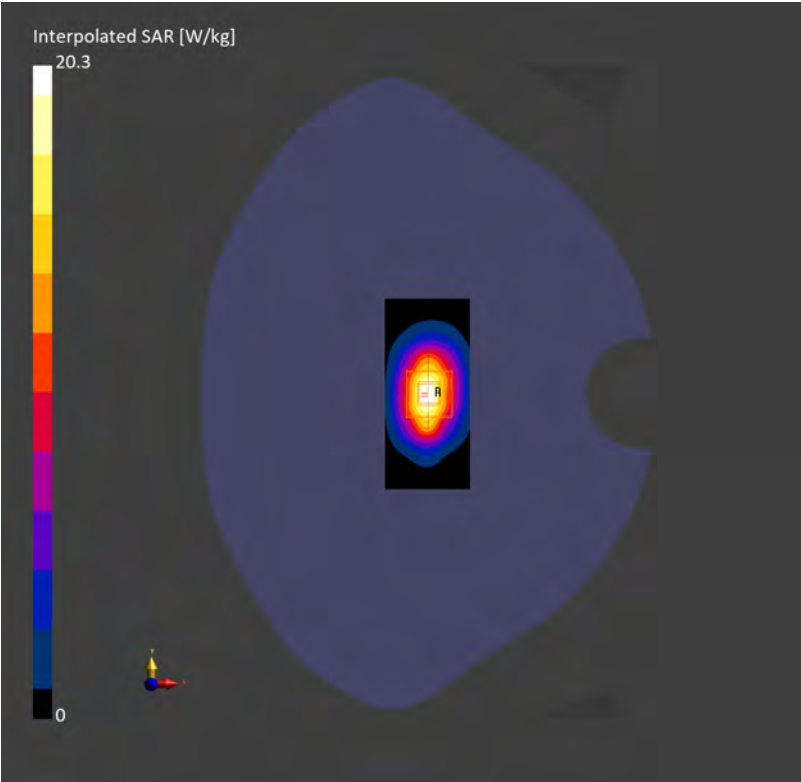
D1900V2- SN 5d028

Communication System: ; Frequency: 1900.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 1900.000$ MHz; $\sigma= 1.37$ S/m; $\epsilon_r = 40.4$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(7.86, 7.86, 7.86); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.2.4.2524

Area Scan (45.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm
SAR (1g) = 10.3 W/kg; SAR (10g) = 5.46 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm
Power Drift = -0.08 dB
SAR (1g) = 10.6 W/kg; SAR (10g) = 5.53 W/kg;
M2/M1 [%]=84.0
Dist 3dB Peak [mm]=8.8



System Performance Check 2450MHz Head**D2450V2-SN 733**

Communication System: ; Frequency: 2450.000

Medium: Head Simulating Liquid. Medium parameters used: $f = 2450.000$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.9$

DASY8 Configuration:

- Probe: EX3DV4 - SN7821; ConvF(7.50, 7.50, 7.50); Calibrated: 2024-08-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
- Measurement Software: cDASY8 V16.2.4.2524

Area Scan (48.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 14.0 W/kg; SAR (10g) = 6.38 W/kg;

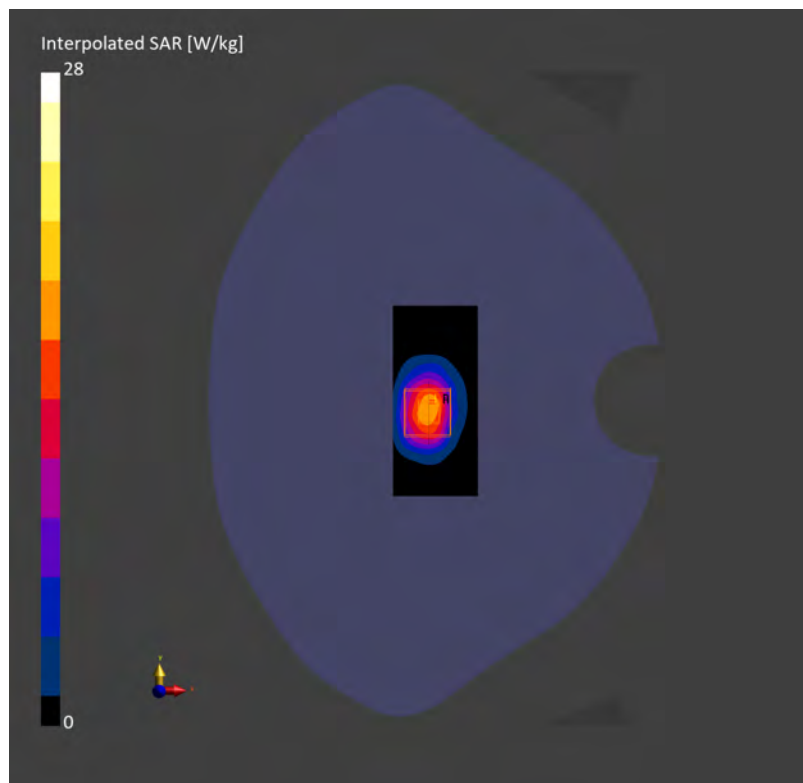
Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5 mm

Power Drift = 0.02 dB

SAR (1g) = 14.2 W/kg; SAR (10g) = 6.44 W/kg;

M2/M1 [%]=82.7

Dist 3dB Peak [mm]=9.0



System Performance Check 3500MHz Head

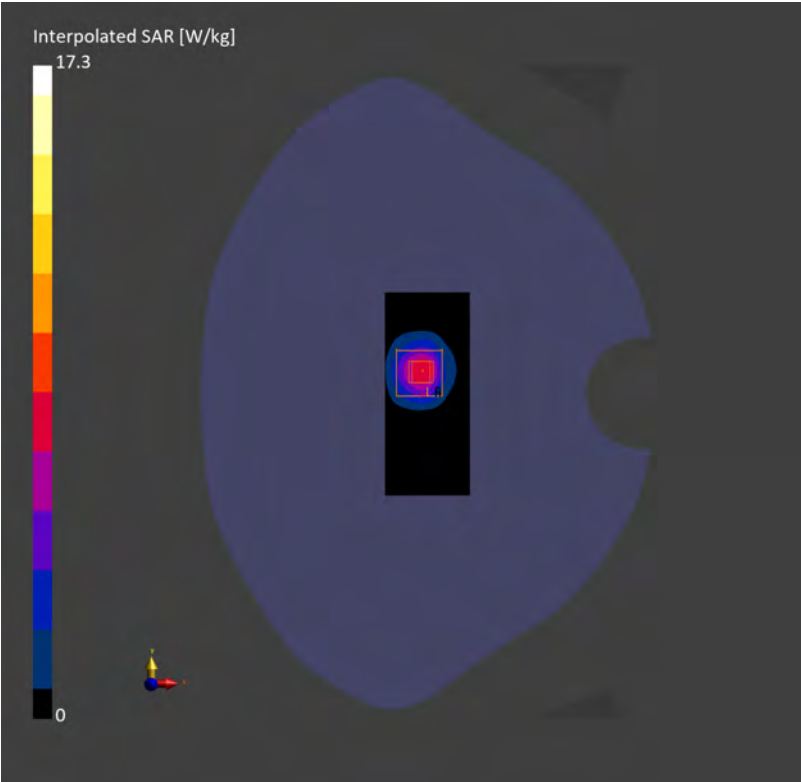
D3500V2-SN 1082

Communication System: ; Frequency: 3500.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 3500.000$ MHz; $\sigma= 2.82$ S/m; $\epsilon_r = 37.7$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.70, 6.70, 6.70); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.2.4.2524

Area Scan (48.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 6.36 W/kg; SAR (10g) = 2.46 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 = -0.05 dB
SAR (1g) = 6.63 W/kg; SAR (10g) = 2.55 W/kg;
M2/M1 [%]=74.8
Dist 3dB Peak [mm]=8.6



System Performance Check 3700MHz Head

D3700V2-SN 1046

Communication System: ; Frequency: 3700.000
Medium: Head Simulating Liquid. Medium parameters used: f= 3700.000 MHz; σ = 2.99 S/m; ϵ_r = 36.6

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(6.48, 6.48, 6.48); Calibrated: 2024-08-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1830; Calibrated: 2024-10-18
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2156
 - Measurement Software: cDASY8 V16.2.4.2524

Area Scan (48.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm
SAR (1g) = 6.98 W/kg; SAR (10g) = 2.49 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 = -0.09 dB
SAR (1g) = 7.03 W/kg; SAR (10g) = 2.62 W/kg;
M2/M1 [%]=74.3
Dist 3dB Peak [mm]=9.0

