

Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 2450 MHz Head
System Performance Check 5250 MHz Head
System Performance Check 5600 MHz Head
System Performance Check 5750 MHz Head
System Performance Check 6500 MHz Head
System Performance Check 10GHz Source



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System Performance Check 2450 MHz Head

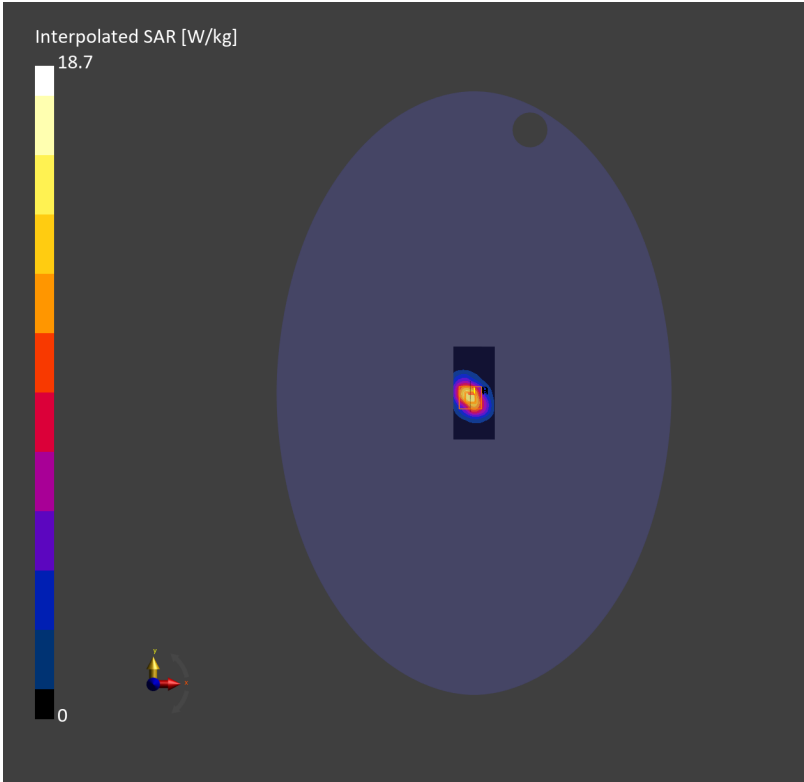
D2450V2- SN 733

Communication System: ; Frequency: 2450.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 2450.000$ MHz; $\sigma= 1.80$ S/m; $\epsilon_r=40.8$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(7.4, 7.4, 7.4); Calibrated: 2025-10-14
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2025-08-15
 - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2219
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 10.0 mm x 15.0 mm
SAR (1g) = 12.1 W/kg; SAR (10g) = 5.88 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 = -0.10 dB
SAR (1g) = 13.1 W/kg; SAR (10g) = 6.41 W/kg;
M2/M1 [%]=82.3
Dist 3dB Peak [mm]=9.4



System Performance Check 5250 MHz Head

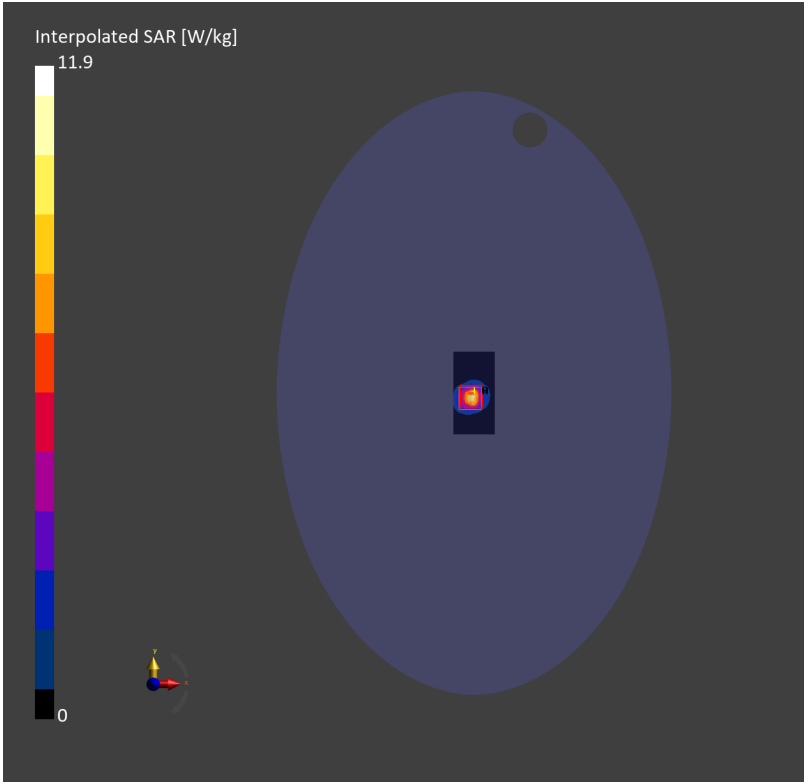
D5GHZV2- SN 1165

Communication System: ; Frequency: 5250.000
Medium: Head Simulating Liquid. Medium parameters used: f= 5250.000 MHz; σ = 4.67 S/m; ϵ_r = 36.5

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(5.27, 5.27, 5.27); Calibrated: 2025-10-14
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2025-08-15
 - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2219
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 6.83 W/kg; SAR (10g) = 2.18 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 = -0.06 dB
SAR (1g) = 8.26 W/kg; SAR (10g) = 2.39 W/kg;
M2/M1 [%]=64.1
Dist 3dB Peak [mm]=7.4



System Performance Check 5600 MHz Head

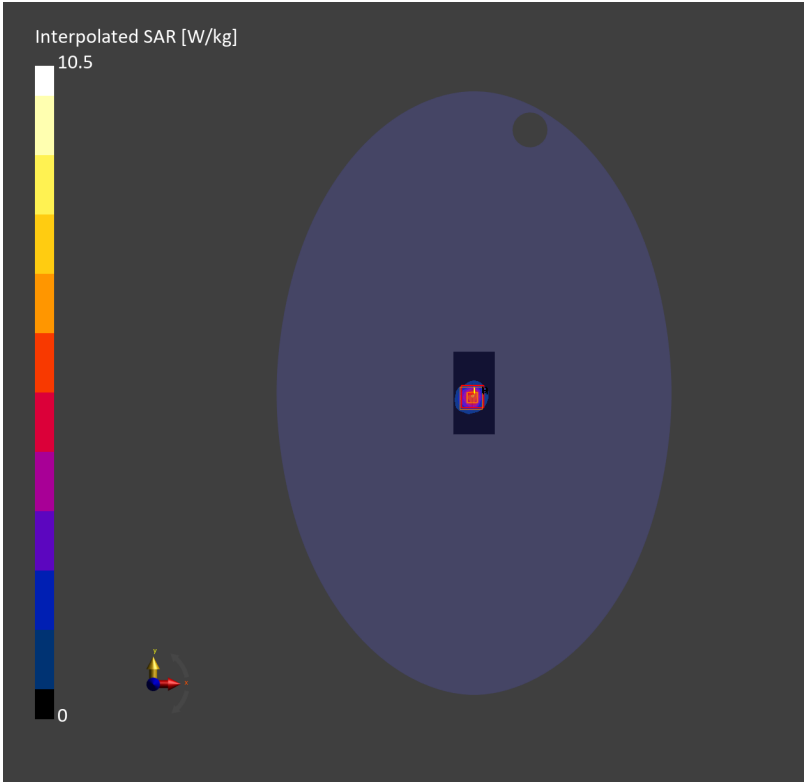
D5GHZV2- SN 1165

Communication System: ; Frequency: 5600.000
Medium: Head Simulating Liquid. Medium parameters used: f= 5600.000 MHz; σ = 5.05 S/m; ϵ_r = 35.6

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(4.67, 4.67, 4.67); Calibrated: 2025-10-14
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2025-08-15
 - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2219
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 4.51 W/kg; SAR (10g) = 1.41 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 = -0.05 dB
SAR (1g) = 7.45 W/kg; SAR (10g) = 2.15 W/kg;
M2/M1 [%]=62.5
Dist 3dB Peak [mm]=7.9



System Performance Check 5750MHz Head

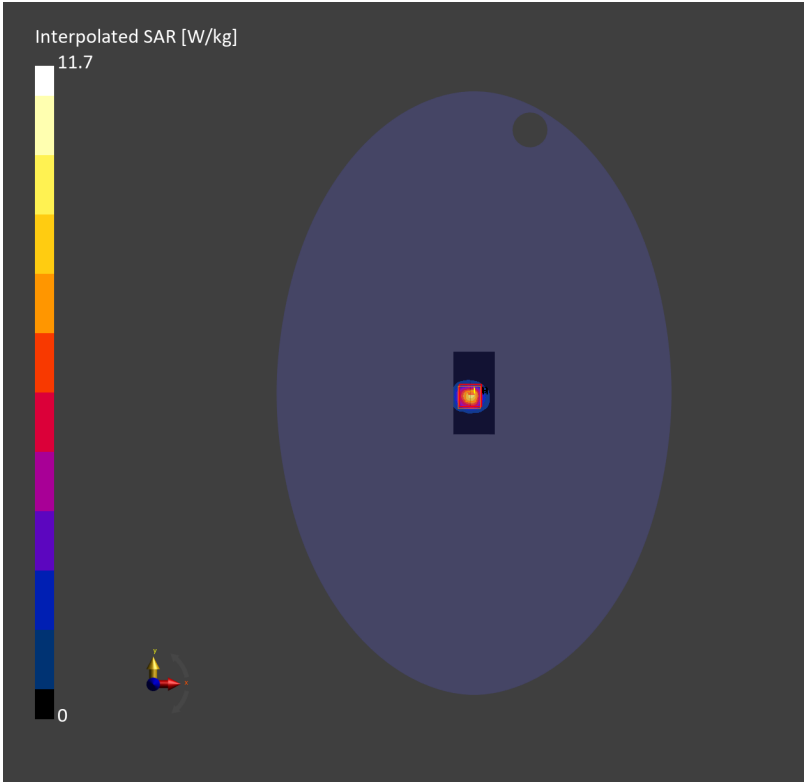
D5GHZV2-SN1165

Communication System: ; Frequency: 5750.000
Medium: Head Simulating Liquid. Medium parameters used: f= 5750.000 MHz; σ = 5.24 S/m; ϵ_r = 35.5

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(4.79, 4.79, 4.79); Calibrated: 2025-10-14
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2025-08-15
 - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2219
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 6.70 W/kg; SAR (10g) = 2.15 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 = 0.07 dB
SAR (1g) = 8.25 W/kg; SAR (10g) = 2.34W/kg;
M2/M1 [%]=51.3
Dist 3dB Peak [mm]=8.9



System Performance Check 6500 MHz Head

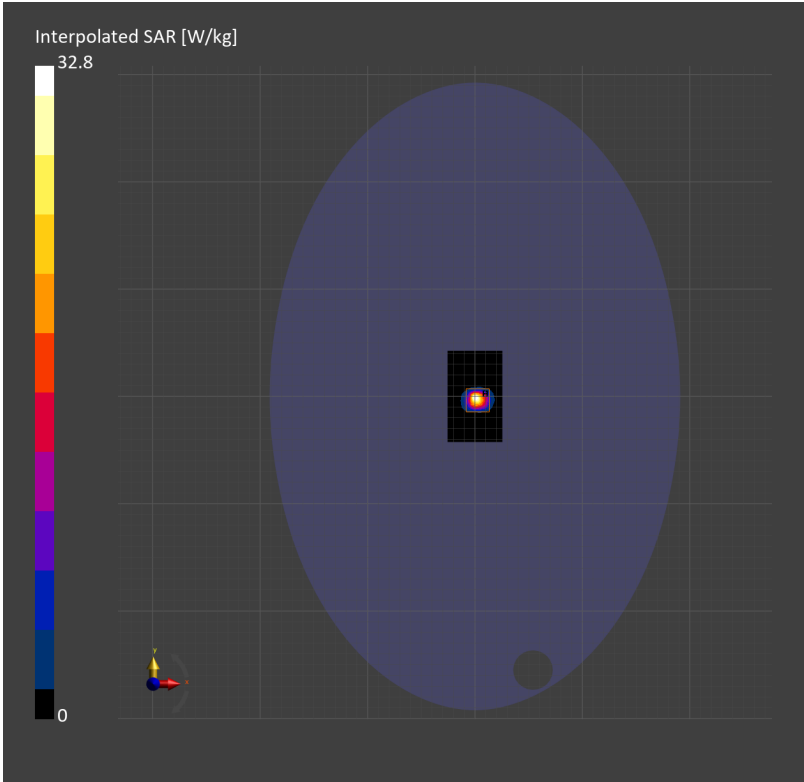
D6.5GHzV2-SN 1102

Communication System: ; Frequency: 6500.000
Medium: Head Simulating Liquid. Medium parameters used: f= 6500.000 MHz; σ = 6.23 S/m; ϵ_r = 34.1

- DASY8 Configuration:
- Probe: EX3DV4 - SN7821; ConvF(5.27, 5.27, 5.27); Calibrated: 2025-10-14
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1803; Calibrated: 2025-08-15
 - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2219
 - Measurement Software: cDASY8 V16.4.0.5005

Area Scan (51.0 mm x 85.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 21.2 W/kg; SAR (10g) = 5.29 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm
Power Drift = 0.09 dB
SAR (1g) = 26.4 W/kg; SAR (10g) = 5.10 W/kg;
M2/M1 [%]=57.0
Dist 3dB Peak [mm]=6.2



Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
10G Source,	100.0 x 100.0 x 100.0	Source

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave – 1777	Air –	EUmmWV4 – SN9533_F1–55GHz, 2025–09–19	DAE4 Sn896, 2026–03–23

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2026–04–29
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	181
psPDtot+ [W/m²]	183
psPDmod+ [W/m²]	187
E _{max} [V/m]	299
Power Drift [dB]	0.02

