

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
System Performance Check 6500 MHz
System Performance Check 10G Source



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System Performance Check 2450 MHz

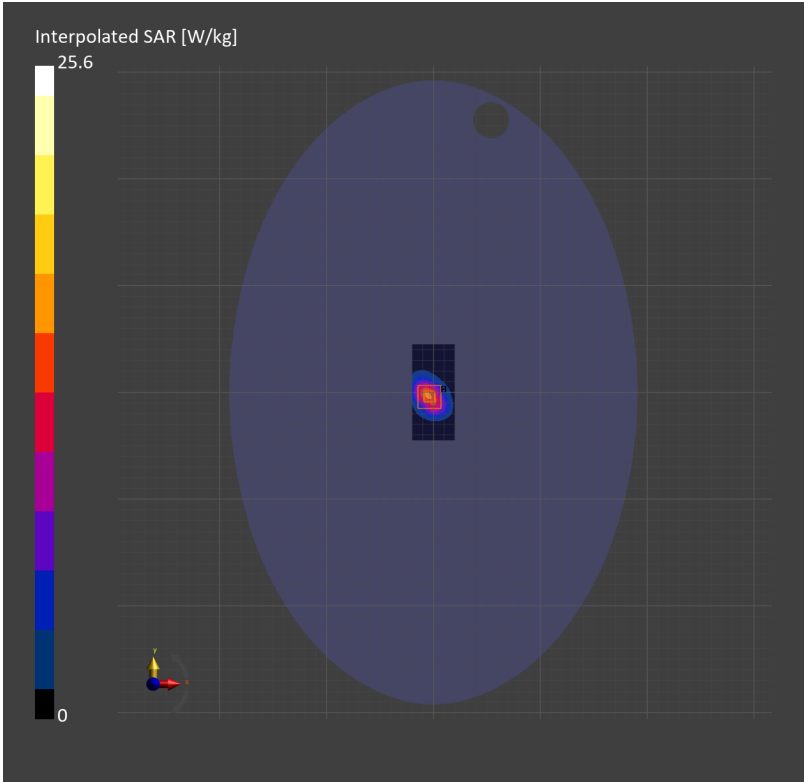
D2450V2- SN 733

Communication System: ; Frequency: 2450.000
Medium: Head Simulating Liquid. Medium parameters used: f= 2450.000 MHz; σ = 1.79 S/m; ϵ_r = 38.4

- 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) = 12.0 W/kg; SAR (10g) = 5.83 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 = -0.12 dB
SAR (1g) = 13.0 W/kg; SAR (10g) = 6.36 W/kg;
M2/M1 [%]=80.9
Dist 3dB Peak [mm]=9.0



System Performance Check 5250 MHz

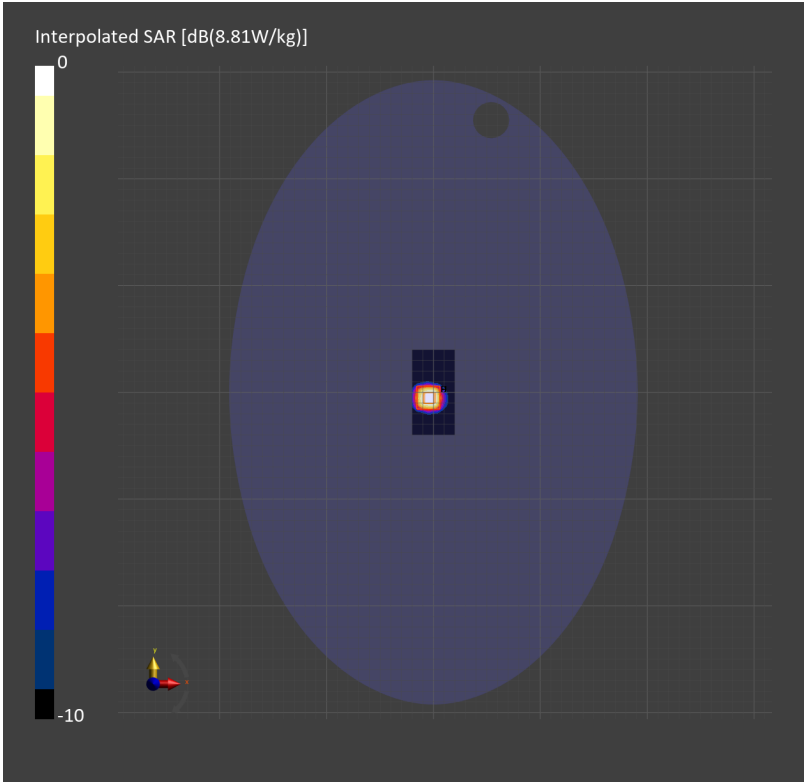
D5GHZV2- SN 1165

Communication System: ; Frequency: 5250.000
Medium: Head Simulating Liquid. Medium parameters used: f= 5250.000 MHz; σ = 4.69 S/m; ϵ_r = 36.8

- 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) = 6.45 W/kg; SAR (10g) = 2.14 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 = -0.05 dB
SAR (1g) = 8.04 W/kg; SAR (10g) = 2.34 W/kg;
M2/M1 [%]=61.6
Dist 3dB Peak [mm]=7.4



System Performance Check 5600 MHz

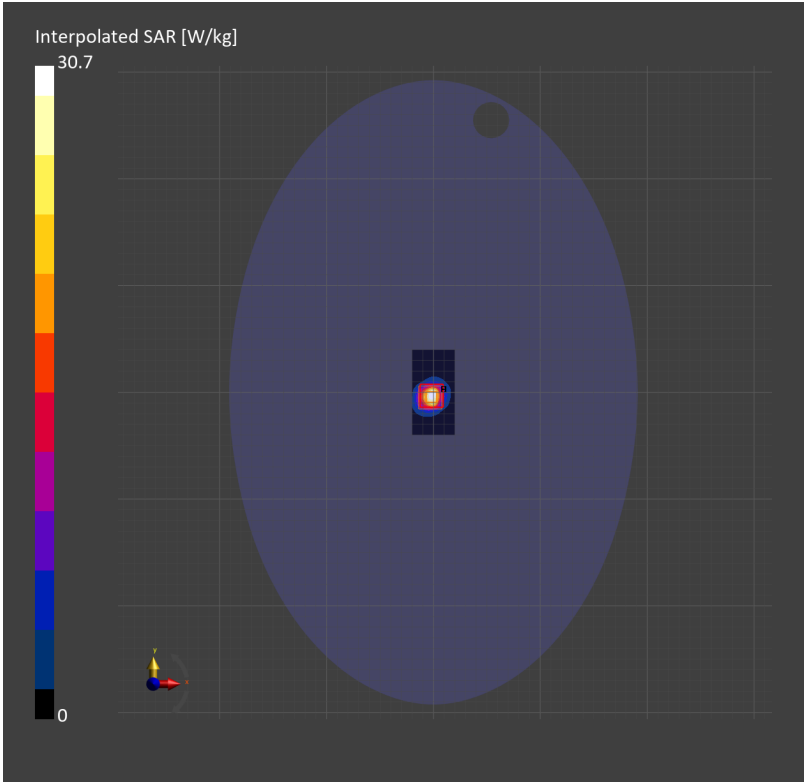
D5GHZV2- SN 1165

Communication System: ; Frequency: 5600.000
Medium: Head Simulating Liquid. Medium parameters used: f= 5600.000 MHz; σ = 5.08 S/m; ϵ_r = 35.8

- 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) = 4.53 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 = -0.16 dB
SAR (1g) = 7.49 W/kg; SAR (10g) = 2.17 W/kg;
M2/M1 [%]=61.3
Dist 3dB Peak [mm]=7.2



System Performance Check 5750MHz

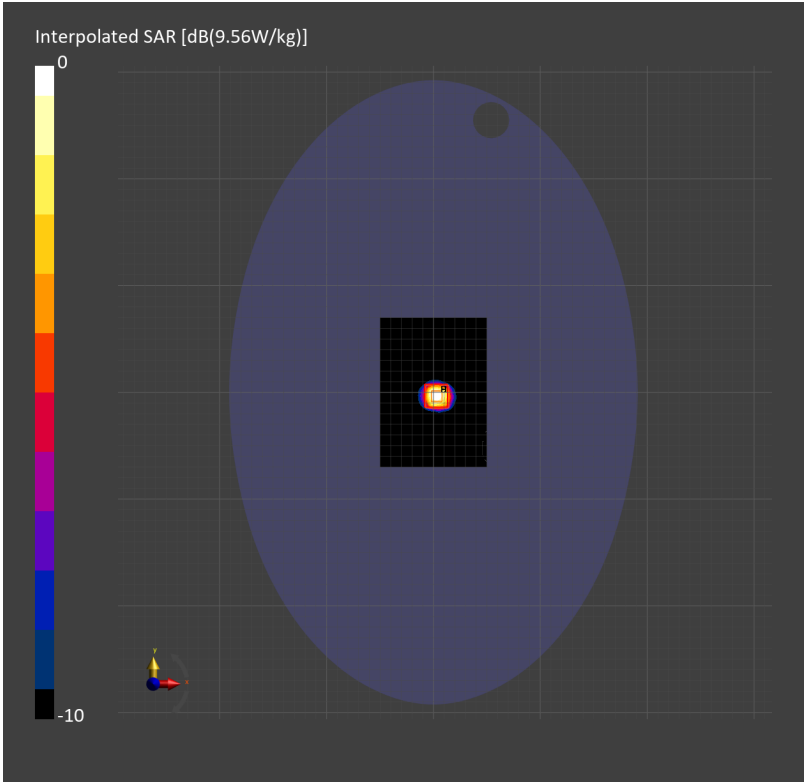
D5GHzV2-SN 1165

Communication System: D5GHz; Frequency: 5750.000
Medium: Head Simulating Liquid. Medium parameters used: $f= 5750.000$ MHz; $\sigma= 5.25$ S/m; $\epsilon_r = 35.5$

- 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 (90.0 mm x 135.0 mm): Measurement Grid: 10.0 mm x 10.0 mm
SAR (1g) = 6.68 W/kg; SAR (10g) = 2.11 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 2.0 mm
Power Drift = 0.01 dB
SAR (1g) = 7.74 W/kg; SAR (10g) = 2.22 W/kg;
M2/M1 [%]=53.6
Dist 3dB Peak [mm]=7.4



System Performance Check 6500 MHz

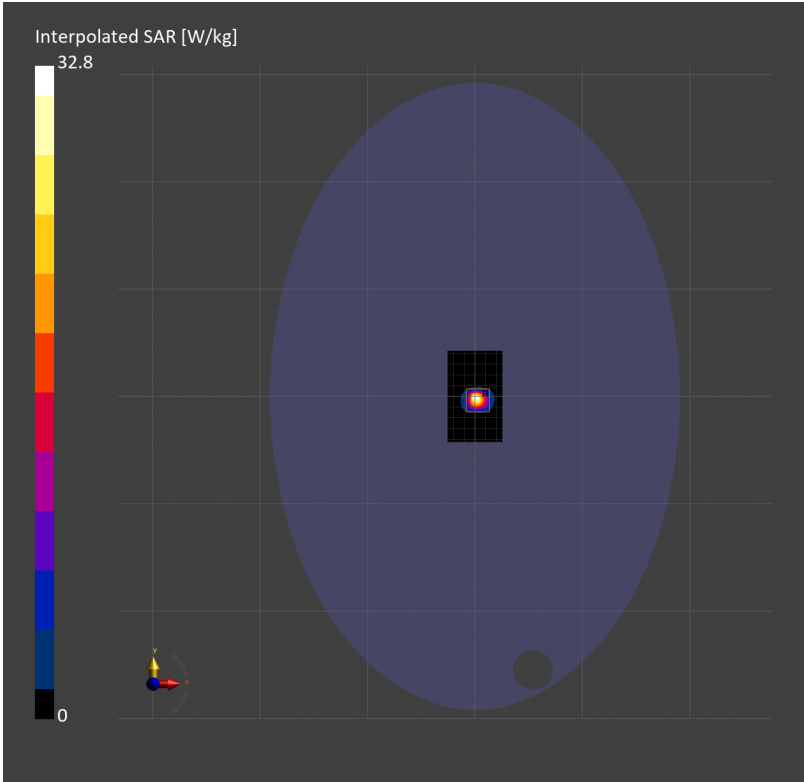
D6.5GHzV2-SN 1102

Communication System: ; Frequency: 6500.000
Medium: Head Simulating Liquid. Medium parameters used: f= 6500.000 MHz; σ = 6.22 S/m; ϵ_r = 34.0

- 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) = 5.28 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 = 0.04 dB
SAR (1g) = 26.5 W/kg; SAR (10g) = 5.91 W/kg;
M2/M1 [%]=59.0
Dist 3dB Peak [mm]=5.2



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 Sn1663, 2025–04–27

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	2025–11–24
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	183
psPDtot+ [W/m²]	179
psPDmod+ [W/m²]	181
E _{max} [V/m]	299
Power Drift [dB]	0.12

