
Appendix A. System Check Data

Test Laboratory: DEKRA

Date: 2025-05-16

System Performance Check_2450MHz-Head

Communication System: UID 0--, CW; Frequency: 2450.000 MHz

Medium parameters used: $f = 2450.000$ MHz; Conductivity = 1.84 S/m; Permittivity = 40.3

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(6.64, 6.8, 6.74); Calibrated: 2025-04-23
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2025-04-23
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 12.5 W/kg; SAR (10 g) = 5.78 W/kg

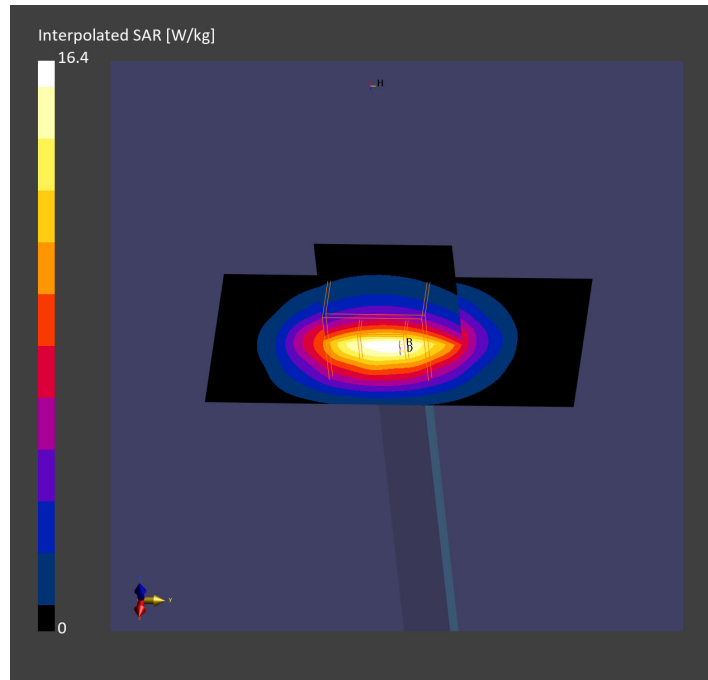
Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = -0.01 dB

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 6.09 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1

Ratio of SAR at M2 to SAR at M1 = 81.8



Test Laboratory: DEKRA

Date: 2025-05-13

System Performance Check_5250MHz-Head

Communication System: UID 0--, CW; Frequency: 5250.000 MHz

Medium parameters used: $f = 5250.000$ MHz; Conductivity = 4.75 S/m; Permittivity = 36.4

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(5.33, 5.46, 5.41); Calibrated: 2025-04-23
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2025-04-23
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 6.69 W/kg; SAR (10 g) = 1.93 W/kg

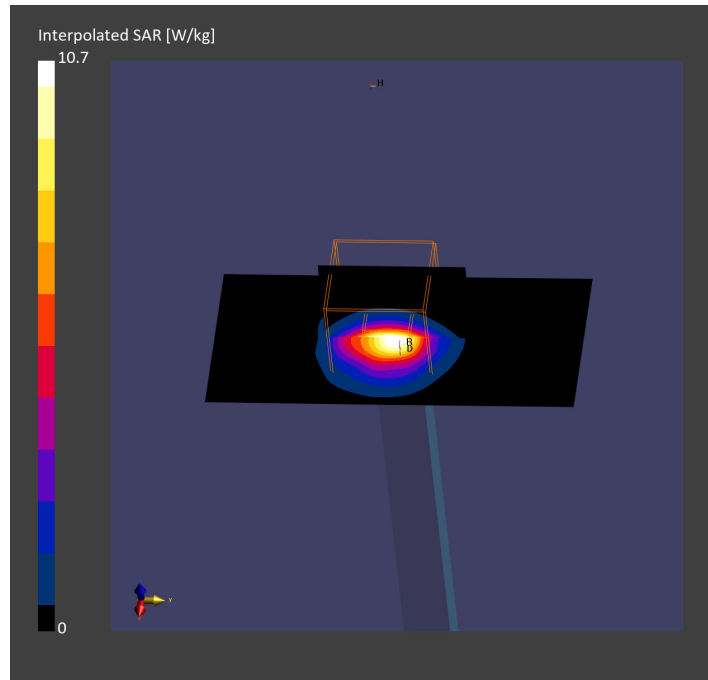
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.05 dB

SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.12 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2

Ratio of SAR at M2 to SAR at M1 = 66.1



Test Laboratory: DEKRA

Date: 2025-05-13

System Performance Check_5600MHz-Head

Communication System: UID 0--, CW; Frequency: 5600.000 MHz

Medium parameters used: $f = 5600.000$ MHz; Conductivity = 5.23 S/m; Permittivity = 35.4

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.88, 5.0, 4.96); Calibrated: 2025-04-23
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2025-04-23
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 7.43 W/kg; SAR (10 g) = 2.10 W/kg

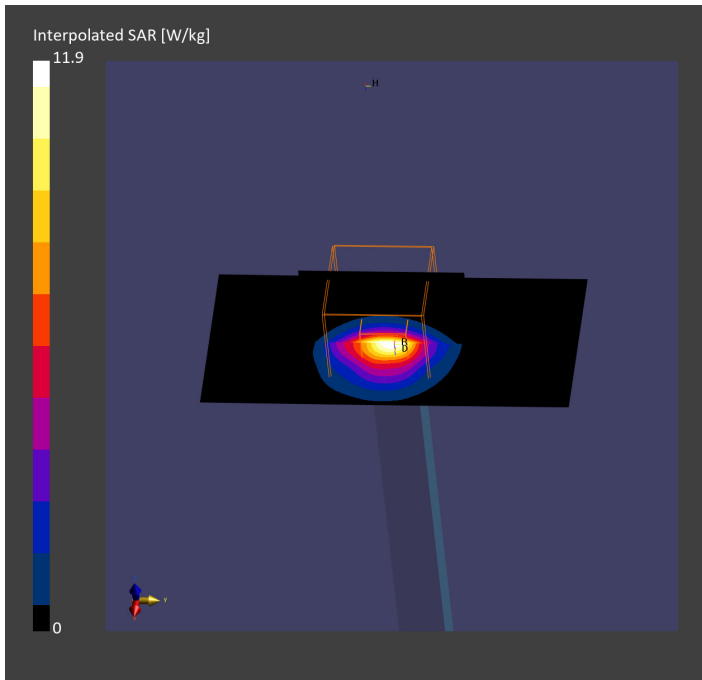
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.00 dB

SAR(1 g) = 8.10 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3

Ratio of SAR at M2 to SAR at M1 = 63.6



Test Laboratory: DEKRA

Date: 2025-05-13

System Performance Check_5800MHz-Head

Communication System: UID 0--, CW; Frequency: 5800.000 MHz

Medium parameters used: $f = 5800.000$ MHz; Conductivity = 5.49 S/m; Permittivity = 34.9

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.9, 5.01, 4.97); Calibrated: 2025-04-23
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2025-04-23
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.4.0.5005

Area Scan (40.0 mm x 80.0 mm): Measurement grid: 10.0 mm x 10.0 mm

SAR (1 g) = 6.82 W/kg; SAR (10 g) = 1.93 W/kg

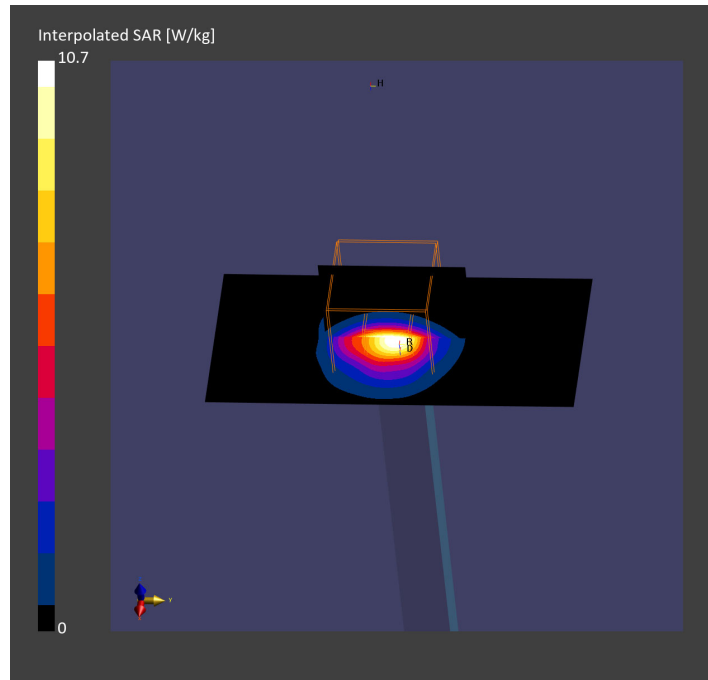
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.02 dB

SAR(1 g) = 7.43 W/kg; SAR(10 g) = 2.11 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2

Ratio of SAR at M2 to SAR at M1 = 61.0



Test Laboratory: DEKRA

Date: 2025-05-14

System Performance Check_6500MHz-Head

Communication System: UID 0--, CW; Frequency: 6500.000 MHz

Medium parameters used: $f = 6500.000$ MHz; Conductivity = 6.22 S/m; Permittivity = 34.6

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.93, 5.05, 5.0); Calibrated: 2025-04-23
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2025-04-23
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.4.0.5005

Area Scan (51.0 mm x 85.0 mm): Measurement grid: 8.5 mm x 8.5 mm

SAR (1 g) = 24.7 W/kg; SAR (10 g) = 5.23 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

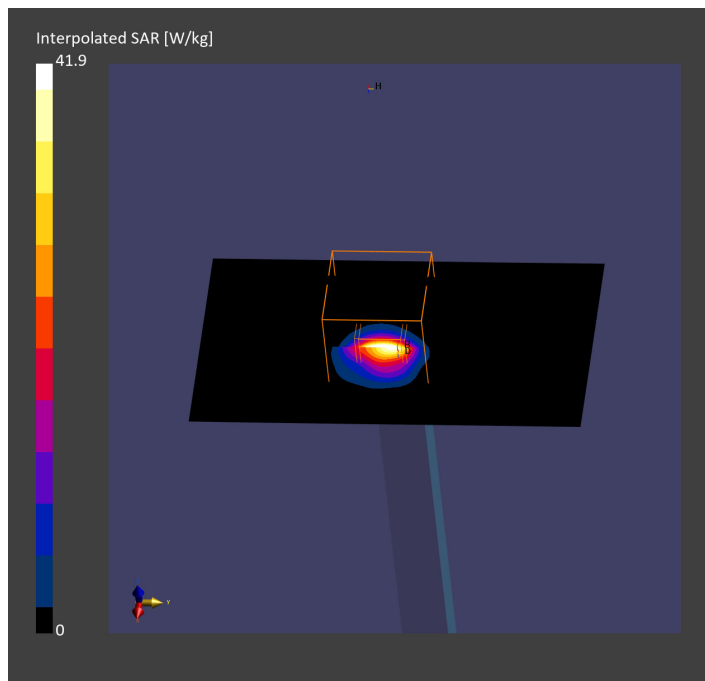
Power Drift = -0.01 dB

SAR(1 g) = 30.2 W/kg; SAR(10 g) = 5.72 W/kg

psAPD (4.0cm², sq) = 139 W/m²

Smallest distance from peaks to all points 3 dB below = 4.8

Ratio of SAR at M2 to SAR at M1 = 54.4



System Performance Check_10GHz

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
System Performance Check_10GHz	100.0 x 100.0 x 100.0		

Exposure Conditions

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

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1068	---Air	EUmmWV4 - SN9546_F1-55GHz, 2025-04-16	DAE4 Sn1651, 2025-02-12

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2025-05-15
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	169
psPDtot+ [W/m²]	170
psPDmod+ [W/m²]	175
E _{max} [V/m]	303
Power Drift [dB]	-0.05

