
Appendix A. System Check Data

Test Laboratory: DEKRA

Date: 2025-04-07

System Performance Check_2450MHz-Head

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

Medium parameters used: $f = 2450.000$ MHz; Conductivity = 1.78 S/m; Permittivity = 39.9

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(6.73, 6.93, 6.69); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- 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) = 12.3 W/kg; SAR (10 g) = 5.66 W/kg

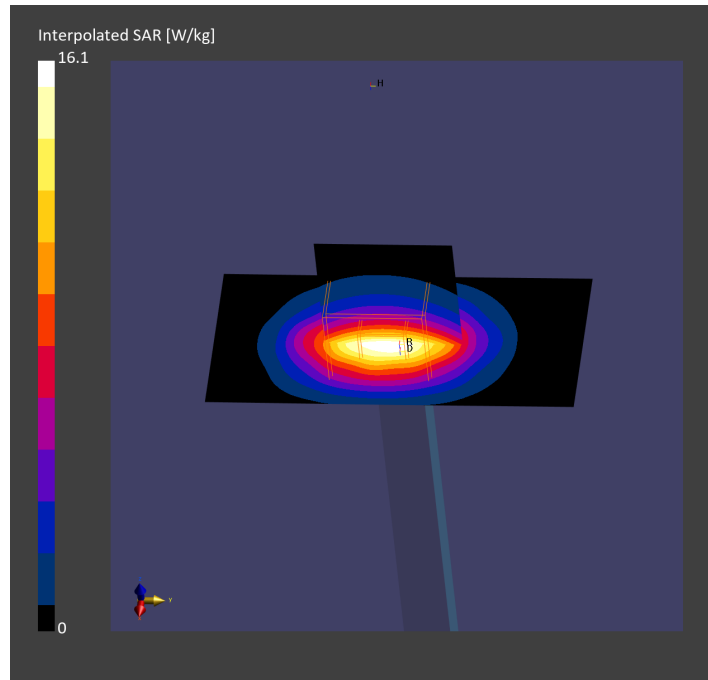
Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = -0.01 dB

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.97 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 81.7



Test Laboratory: DEKRA

Date: 2025-04-08

System Performance Check_5250MHz-Head

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

Medium parameters used: $f = 5250.000$ MHz; Conductivity = 4.66 S/m; Permittivity = 35.8

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(5.09, 5.24, 5.17); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- 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) = 6.64 W/kg; SAR (10 g) = 1.90 W/kg

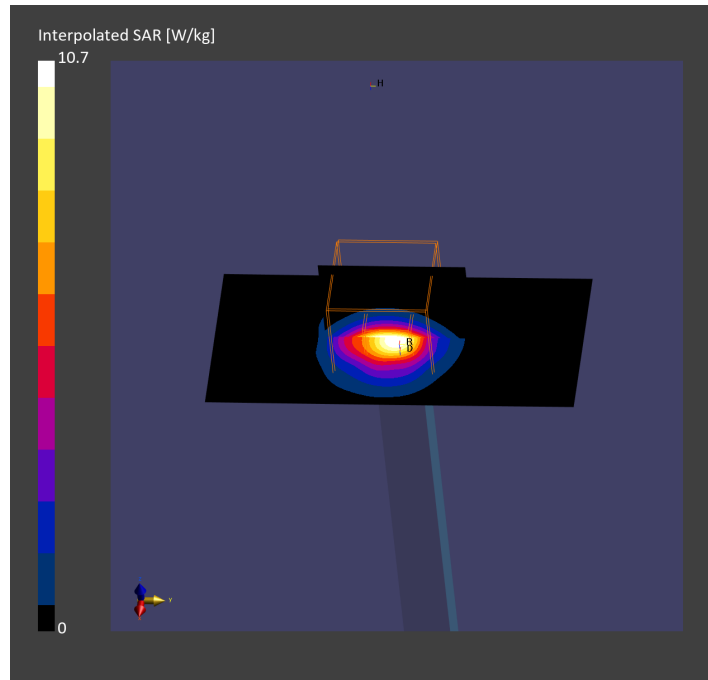
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.01 dB

SAR(1 g) = 7.21 W/kg; SAR(10 g) = 2.08 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.4



Test Laboratory: DEKRA

Date: 2025-04-09

System Performance Check_5600MHz-Head

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

Medium parameters used: $f = 5600.000$ MHz; Conductivity = 5.14 S/m; Permittivity = 34.8

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.41, 4.5, 4.47); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- 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) = 7.69 W/kg; SAR (10 g) = 2.17 W/kg

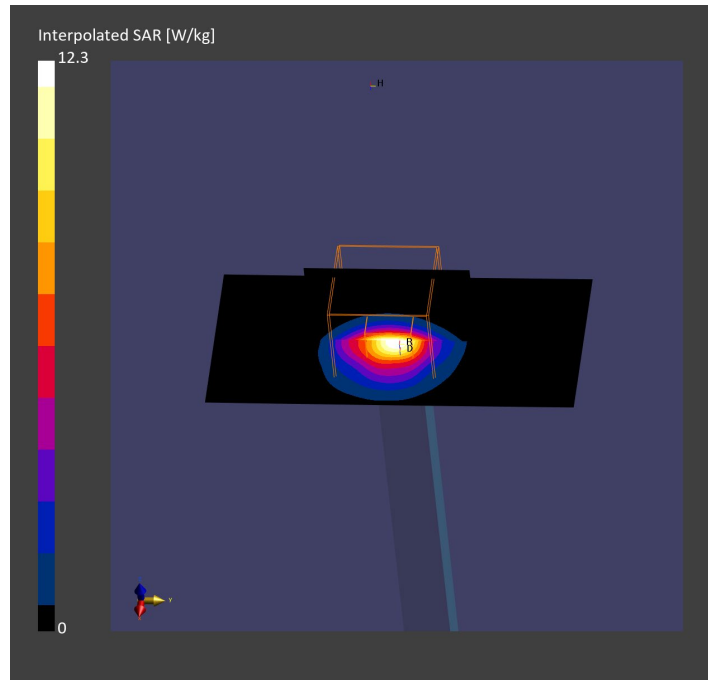
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = 0.12 dB

SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.39 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63.2



Test Laboratory: DEKRA

Date: 2025-04-09

System Performance Check_5800MHz-Head

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

Medium parameters used: $f = 5800.000$ MHz; Conductivity = 5.41 S/m; Permittivity = 34.3

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.47, 4.6, 4.54); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- 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) = 7.15 W/kg; SAR (10 g) = 2.03 W/kg

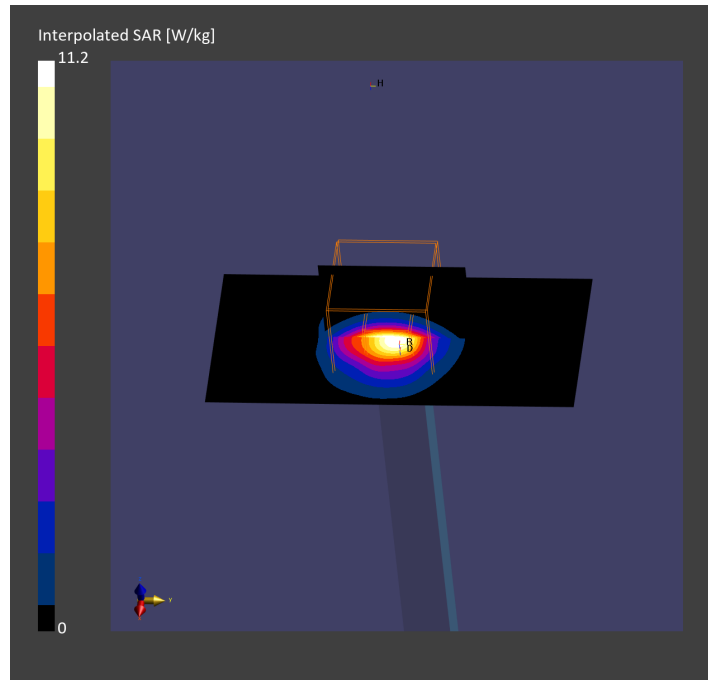
Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 4.0 mm x 4.0 mm x 1.4 mm

Power Drift = -0.04 dB

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.21 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.5



Test Laboratory: DEKRA

Date: 2025-03-20

System Performance Check_6500MHz-Head

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

Medium parameters used: $f = 6500.000$ MHz; Conductivity = 6.09 S/m; Permittivity = 34.6

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.71, 4.83, 4.78); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- 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) = 23.1 W/kg; SAR (10 g) = 4.64 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

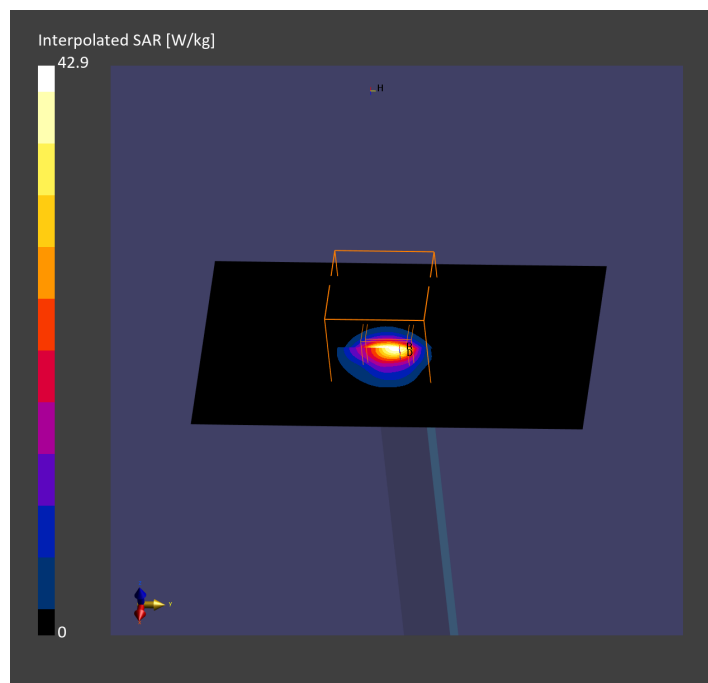
Power Drift = 0.07 dB

SAR(1 g) = 28.0 W/kg; SAR(10 g) = 5.20 W/kg

psAPD (4.0cm², sq) = 127 W/m²

Smallest distance from peaks to all points 3 dB below = 5.0

Ratio of SAR at M2 to SAR at M1 = 51.4



System Performance Check_10GHz

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	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, 2024-04-18	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	2025-03-21
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	180
psPDtot+ [W/m ²]	181
psPDmod+ [W/m ²]	186
E _{max} [V/m]	301
Power Drift [dB]	0.01

