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## Appendix A. System Check Data

Test Laboratory: DEKRA

Date: 2025-07-24

**System Performance Check\_2450MHz-Head**

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

Medium parameters used:  $f = 2450.000$  MHz; Conductivity = 1.81 S/m; Permittivity = 39.7

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.94, 7.57, 7.27); Calibrated: 2025-02-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2025-02-12
- 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) = 12.6 W/kg; SAR (10 g) = 5.86 W/kg

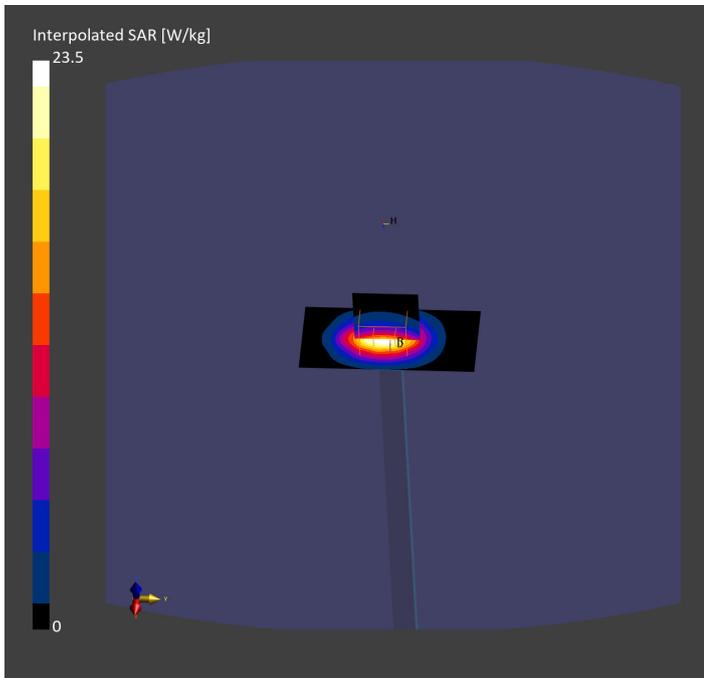
**Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm ):** Measurement grid: 5.0 mm x 5.0 mm x 1.5 mm

Power Drift = -0.02 dB

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 6.04 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 83.8



Test Laboratory: DEKRA

Date: 2025-07-25

### System Performance Check\_6500MHz-Head

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

Medium parameters used:  $f = 6500.000$  MHz; Conductivity = 6.05 S/m; Permittivity = 34.3

Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(5.78, 5.51, 5.3); Calibrated: 2025-02-26
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1651; Calibrated: 2025-02-12
- 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) = 22.4 W/kg; SAR (10 g) = 4.93 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

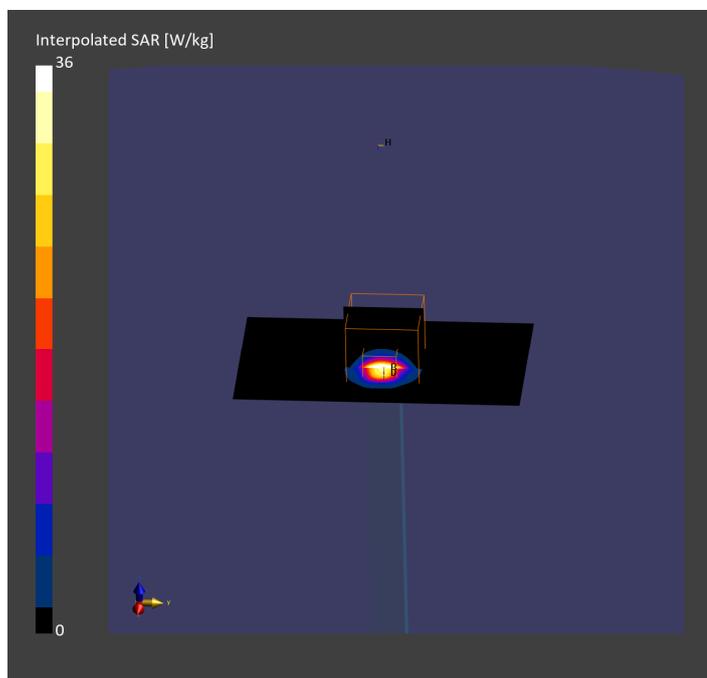
Power Drift = -0.00 dB

SAR(1 g) = 30.3 W/kg; SAR(10 g) = 5.80 W/kg

psAPD (4.0cm<sup>2</sup>, sq) = 140 W/m<sup>2</sup>

Smallest distance from peaks to all points 3 dB below = 4.9

Ratio of SAR at M2 to SAR at M1 = 51.5



**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	2025-07-25
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	181
psPDtot+ [W/m <sup>2</sup> ]	181
psPDmod+ [W/m <sup>2</sup> ]	186
E <sub>max</sub> [V/m]	297
Power Drift [dB]	0.11

