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## Appendix A. System Check Data

Test Laboratory: DEKRA

Date: 2023/12/25

**System Performance Check\_2450MHz-Head****DUT: D2450V2; Type: D2450V2**

Communication System: UID 0, CW; Frequency: 2450 MHz

Communication System PAR: 0 dB

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.78$  S/m;  $\epsilon_r = 39.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN7631; ConvF(7.85, 8.9, 7.36) @ 2450 MHz; Calibrated: 2023/02/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1651; Calibrated: 2023/02/22
- Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 2030
- Measurement SW: DASYS2, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Configuration/2450MHz\_Head/Area Scan (10x10x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 15.0 W/kg

**Configuration/2450MHz\_Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 112.7 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 26.1 W/kg

**SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.15 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 21.6 W/kg

