



2.6 SAR exclusion threshold

2.6.1 Specification Reference

KDB 447498 D01 V06, section 4.3.1 c) 2)

2.6.2 Equipment Under Test and Modification State

Model: DAC Universal; Type: MK IV, S/N: 1044 - Modification State 0

2.6.3 Date of Test

2019-04-01

2.6.4 Test Method

Carrier level is based on test result according to section **Fehler! Verweisquelle konnte nicht gefunden werden.** of this report.

2.6.5 Test Result

Maximum Radiated Fields Strength: 68.9 dBμV/m (at 3 m distance and 125 kHz)
(see chapter **Fehler! Verweisquelle konnte nicht gefunden werden.** of this test report)

Calculated Equivalent Radiated Power: 2.786 mW (e.i.r.p.)

Minimum separation distance: ≤ 5 mm (50 mm)

1-g numeric threshold: $(3.0 (1 + \log_{10}(100/0.125)))/2 = 5.85$

SAR test exclusion limit (for 1-g): $5.85 \cdot 50 / \sqrt{0.1} = 925 \text{ mW}$

Note 1: For test distances below 5 mm according to 4.3.1 a) the test distance is fixed to 5 mm. However, according to 4.3.1 c), the limit is based on a fixed test distance of 50 mm for test distances smaller than 50 mm at frequencies below 100 MHz.

Note 2: The calculation of the power limit is based on $f = 100 \text{ MHz}$ and $d = 50 \text{ mm}$, however, the correction of the numeric threshold is based on the real frequency of $f = 125 \text{ kHz}$

$$EIRP = \frac{(FS \cdot D)^2}{30}$$
$$Num.Thresh. (f < 100 \text{ MHz}, d < 50 \text{ mm}) = \frac{1}{2} (Num.Thresh. \left(1 + \log_{10} \frac{100 \text{ MHz}}{f} \right))$$
$$P_{lim} = (Num.Thresh.) (d \text{ in mm}) / \sqrt{f \text{ in GHz}}$$