

1. RF Exposure

General SAR test reduction and exclusion guidance KDB 447498D01

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$

The tune-up power is ≤ -2 dBm, therefore the highest tune-up power is -2 dBm (0.631 mW) @ 60543.82 MHz

When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$(0.631 \text{ mW} / 5 \text{ mm}) * (60.54382 \text{ GHz}^{0.5}) = 0.982$

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.982 < 3.0$

Therefore, standalone SAR measurements is not required for body.