

FCC ID: KR5GEN1
IC: 7812D-GEN1

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

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

The tune-up power is ≤ -29 dBm, therefore the highest tune-up power is

-29.00 dBm (0.0013 mW) @ 433.660 MHz (worst)
-32.00 dBm (0.0006 mW) @ 433.920 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,

$(0.0013\text{mW} / 5\text{mm}) \cdot (0.43366\text{GHz}^{0.5}) = 0.00017$

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.00017 < 3.0$

Therefore, standalone SAR measurements are not required for both head and body.

Note:

1. The tune up power referred the operation description and TMWK2109000552KR (under issue date November 30, 2021) for SAR test exclusion purpose.