

## RF Exposure Evaluation

According to KDB 447498 D01 V06 and part 2.1093, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, Mw}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

$f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest Mw and mm before calculation

The result is rounded to one decimal place for comparison

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

EIRP is the equivalent isotropically radiated power, in dBm

$E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dB  $\mu$  V/m

$d_{\text{Meas}}$  is the measurement distance, in m

Here,

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| Conducted power (dBm) | Max tune-up (Mw) | Frequency (MHz) | Min. distance(mm) | Calc. thresholds | limit |
|-----------------------|------------------|-----------------|-------------------|------------------|-------|
| 7.528                 | 5.7              | 2480            | 5                 | 1.78             | 3.0   |

So a SAR test is not required