

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 ≤ 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 ≤ 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

Here,

For wifi 2.4G Mode

Max. tune-up power. (dBm)	tune-up power. (mW)	Frequency	Min. distance(mm)	Calc. thresholds	limit
7.87	6.124	2462	5	1.922	3.0
7.47	5.585	2462	5	1.753	3.0
7.53	5.662	2462	5	1.777	3.0
7.76	5.970	2422	5	1.858	3.0

For wifi 5.8G Mode

Max. tune-up power. (dBm)	tune-up power. (mW)	Frequency	Min. distance(mm)	Calc. thresholds	limit
7.462	5.574	5745	5	2.672	3.0
7.807	6.035	5785	5	2.903	3.0
7.608	5.765	5825	5	2.783	3.0
7.819	6.052	5745	5	2.901	3.0
7.348	5.430	5785	5	2.612	3.0
7.251	5.310	5825	5	2.563	3.0
7.456	5.567	5755	5	2.671	3.0
7.743	5.947	5795	5	2.863	3.0
7.144	5.181	5745	5	2.484	3.0
7.446	5.554	5785	5	2.672	3.0
7.238	5.294	5825	5	2.556	3.0
7.551	5.690	5755	5	2.730	3.0
7.748	5.954	5795	5	2.867	3.0
7.772	5.987	5775	5	2.877	3.0

Note: BT, 2.4G WIFI and 5.8G WIFI cannot transmit at the same time.

So a SAR test is not required