

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
7.78	5.998	2412	5	1.863	3.0
7.85	6.095	2462	5	1.913	3.0
7.67	5.848	2462	5	1.835	3.0
7.84	6.081	2422	5	1.893	3.0

For wifi 5.8G Mode

Max. tune-up power. (dBm)	tune-up power. (mW)	Frequency	Min. distance(mm)	Calc. thresholds	limit
7.906	6.174	5745	5	2.960	3.0
7.527	5.658	5785	5	2.722	3.0
7.329	5.406	5825	5	2.610	3.0
7.42	5.521	5745	5	2.647	3.0
7.212	5.263	5785	5	2.532	3.0
7.428	5.531	5825	5	2.670	3.0
7.678	5.859	5755	5	2.811	3.0
7.879	6.136	5795	5	2.954	3.0
7.289	5.357	5745	5	2.568	3.0
7.605	5.761	5785	5	2.771	3.0
7.595	5.748	5825	5	2.774	3.0
7.771	5.985	5755	5	2.872	3.0
7.929	6.207	5795	5	2.989	3.0
7.53	5.662	5775	5	2.721	3.0

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

So a SAR test is not required