



RF Exposure Evaluation

According to KDB 447498 D01 General RF Exposure Guidance 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,

2.4G WI-FI Mode							
Mode	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Min. Distance (mm)	Calc. thresholds	limit	Result
802.11b	2412	8.608	7.26	5	2.2550	3.0	PASS
802.11g	2437	7.784	6.00	5	1.8733	3.0	PASS
802.11n20	2412	6.848	4.84	5	1.5034	3.0	PASS
802.11n40	2437	6.810	4.80	5	1.4986	3.0	PASS



5.2G WI-FI Mode							
Mode	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Min. Distance (mm)	Calc. thresholds	limit	Result
802.11a	5200	5.934	3.92	5	1.7878	3.0	PASS
802.11n20	5200	5.478	3.53	5	1.6099	3.0	PASS
802.11ac20	5200	5.588	3.62	5	1.6510	3.0	PASS
802.11n40	5190	5.236	3.34	5	1.5218	3.0	PASS
802.11ac40	5190	5.166	3.29	5	1.4990	3.0	PASS

5.8G WI-FI Mode							
Mode	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Min. Distance (mm)	Calc. thresholds	limit	Result
802.11a	5745	5.981	3.96	5	1.8983	3.0	PASS
802.11n20	5825	5.369	3.44	5	1.6605	3.0	PASS
802.11ac20	5745	5.354	3.43	5	1.6443	3.0	PASS
802.11n40	5755	5.091	3.23	5	1.5497	3.0	PASS
802.11ac40	5755	5.290	3.38	5	1.6217	3.0	PASS

Note: The device can not transmit with 2.4G WI-FI and 5.2G WI-FI and 5.8G WI-FI simultaneously.

So a SAR test is not required.