

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:

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

f_(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 BLE

Mode	Max	Max	Frequency(MHz)	Min.	Calc.	limit
100	Power(dBm)	Power(mW)	3 63	distance(mm)	thresholds	
GFSK	3.57	2.28	2440	5	0.70521	3.0

For EDR

Mode	Max	Max	Frequency(MHz)	Min.	Calc.	limit
	Power(dBm)	Power(mW)		distance(mm)	thresholds	
GFSK	4.586	2.87	2441	5	0.89828	3.0
π/4-DQPSK	5.296	3.39	2441	5	1.05783	3.0
8-DPSK	5.448	3.51	2441	5	1.09550	3.0

Note: Only one single wireless transmission mode can be used at the same time

So a SAR test is not required

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