

1. RF EXPOSURE EVALUATION

Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1093 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]$$

* $[\sqrt{f(\text{GHz})}]$

BT3.0

	Peak Output power	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Output Power: mW	Separation distance mm	RF exposure
1Mbps						
2402	5.191	4.5±1.0	5.5	3.548	5	1.100
2441	5.324	4.5±1.0	5.5	3.548	5	1.108
2480	5.135	4.5±1.0	5.5	3.548	5	1.187
2Mbps						
2402	4.609	4.5±1.0	5.5	3.548	5	1.100
2441	4.646	4.5±1.0	5.5	3.548	5	1.108
2480	5.080	4.5±1.0	5.5	3.548	5	1.187
3Mbps						
2402	4.714	4.5±1.0	5.5	3.548	5	1.100
2441	4.655	4.5±1.0	5.5	3.548	5	1.108
2480	4.548	4.5±1.0	5.5	3.548	5	1.187

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	Average Conducted Output Power (dBm)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Average Output Power: mW	Separation distance mm	RF exposure
802.11B						
2412	9.42	8.5±1.0	9.5	8.913	5	2.768
2437	9.31	8.5±1.0	9.5	8.913	5	2.744
2462	9.35	8.5±1.0	9.5	8.913	5	2.885
802.11G						
2412	8.31	8.0±1.0	9.0	7.943	5	2.467
2437	8.52	8.0±1.0	9.0	7.943	5	2.446
2462	8.28	8.0±1.0	9.0	7.943	5	2.571
802.11N(20)						
2412	7.49	7.0±1.0	8.0	6.310	5	1.960
2437	7.32	7.0±1.0	8.0	6.310	5	1.943
2462	7.48	7.0±1.0	8.0	6.310	5	2.043
802.11N(40)						
2422	7.24	7.0±1.0	8.0	6.310	5	1.964
2437	7.32	7.0±1.0	8.0	6.310	5	1.943
2452	7.27	7.0±1.0	8.0	6.310	5	2.003

The Max RF exposure is 2.885

Threshold at which no SAR required is ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion:

So no SAR is required.