

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	1.791	2±1.0	3.0	1.995	5	0.618
2441	2.924	2±1.0	3.0	1.995	5	0.623
2480	2.783	2±1.0	3.0	1.995	5	0.628
2Mbps						
2402	-0.565	0.3±1.0	1.3	1.349	5	0.418
2441	1.021	0.3±1.0	1.3	1.349	5	0.421
2480	0.861	0.3±1.0	1.3	1.349	5	0.425
3Mbps						
2402	0.301	1±1.0	2.0	1.585	5	0.491
2441	1.473	1±1.0	2.0	1.585	5	0.495
2480	1.345	1±1.0	2.0	1.585	5	0.499

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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	9.05	8.5±1.0	9.5	8.913	5	2.768
2437	9.11	8.5±1.0	9.5	8.913	5	2.744
2462	9.23	8.5±1.0	9.5	8.913	5	2.885
802.11G						
2412	8.43	8.0±1.0	9.0	7.943	5	2.467
2437	8.22	8.0±1.0	9.0	7.943	5	2.446
2462	8.51	8.0±1.0	9.0	7.943	5	2.571
802.11N(20)						
2412	7.89	7.0±1.0	8.0	6.310	5	1.960
2437	7.72	7.0±1.0	8.0	6.310	5	1.943
2462	7.74	7.0±1.0	8.0	6.310	5	2.043
802.11N(40)						
2422	7.13	7.0±1.0	8.0	6.310	5	1.964
2437	7.35	7.0±1.0	8.0	6.310	5	1.943
2452	7.32	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.