



APPENDIX L
: RF EXPOSURE EVALUATION



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

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

IEEE 802.11b

Frequency	Average Conducted Output Power(dBm)	Target Power /tolerance (dBm)	Max tune up power Tolerance (dBm)	Maximum Average Output Power(mW)	Separation Distance (mm)	RF Exposure
2412	1.22	1.5 ±1.0	2.5	1.78	5	0.55
2437	1.52	1.5 ±1.0	2.5	1.78	5	0.55
2462	2.25	1.5 ±1.0	2.5	1.78	5	0.55

IEEE 802.11g

Frequency	Average Conducted Output Power(dBm)	Target Power /tolerance (dBm)	Max tune up power Tolerance (dBm)	Maximum Average Output Power(mW)	Separation Distance (mm)	RF Exposure
2412	2.31	2.5 ±1.0	3.5	2.24	5	0.70
2437	2.99	2.5 ±1.0	3.5	2.24	5	0.70
2462	3.35	2.5 ±1.0	3.5	2.24	5	0.70

IEEE 802.11n

Frequency	Average Conducted Output Power(dBm)	Target Power /tolerance (dBm)	Max tune up power Tolerance (dBm)	Maximum Average Output Power(mW)	Separation Distance (mm)	RF Exposure
2412	2.15	2.5 ±1.0	3.5	2.24	5	0.70
2437	2.55	2.5 ±1.0	3.5	2.24	5	0.70
2462	3.16	2.5 ±1.0	3.5	2.24	5	0.70

The Max RF exposure is 0.70

Threshold at which no SAR required is << 3 for 1-g SAR, Separation distance is 5 mm

Conclusion:

So no SAR is required.