

## Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1091 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Friis transmission formula:  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>,  $P_{out}$  = output power to antenna in mW;

$G$  = gain of antenna in linear scale,  $\pi = 3.1416$ ;

$R = 20\text{cm}$ , distance between observation point and center of the radiator in cm.

### 2.4G (Antenna gain: 2.86 dBi)

	Channel Frequency (MHz)	Target power W/ tolerance (dBm)	Max tune up power tolerance(dBm)	Max Output power to antenna (mW)	Power Density at R=20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
802.11b	2412MHz	11 ± 1	12	15.85	0.00609	1.0	Pass
802.11b	2437MHz	11 ± 1	12	15.85	0.00609	1.0	Pass
802.11b	2462MHz	11 ± 1	12	15.85	0.00609	1.0	Pass
802.11g	2412MHz	10 ± 1	11	12.59	0.00484	1.0	Pass
802.11g	2437MHz	10 ± 1	11	12.59	0.00484	1.0	Pass
802.11g	2462MHz	10 ± 1	11	12.59	0.00484	1.0	Pass
802.11n (HT20)	2412MHz	9 ± 1	10	10.00	0.00384	1.0	Pass
802.11n (HT20)	2437MHz	9 ± 1	10	10.00	0.00384	1.0	Pass
802.11n (HT20)	2462MHz	9 ± 1	10	10.00	0.00384	1.0	Pass
802.11n (HT40)	2422MHz	8 ± 1	9	7.94	0.00305	1.0	Pass
802.11n (HT40)	2437MHz	8 ± 1	9	7.94	0.00305	1.0	Pass
802.11n (HT40)	2452MHz	8 ± 1	9	7.94	0.00305	1.0	Pass

## 5.2G (Antenna gain: 2.29 dBi)

	Channel Frequency (MHz)	Target power W/ tolerance (dBm)	Max tune up power tolerance(dBm)	Max Output power to antenna (mW)	Power Density at R=20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
802.11a	5180MHz	11±1	12	15.85	0.00534	1.0	Pass
802.11a	5200MHz	10±1	11	12.59	0.00424	1.0	Pass
802.11a	5240MHz	11±1	12	15.85	0.00534	1.0	Pass
802.11n (HT20)	5180MHz	11±1	12	15.85	0.00534	1.0	Pass
802.11n (HT20)	5200MHz	11±1	12	15.85	0.00534	1.0	Pass
802.11n (HT20)	5240MHz	10±1	11	12.59	0.00424	1.0	Pass
802.11 n(HT40)	5190MHz	10±1	11	12.59	0.00424	1.0	Pass
802.11 n(HT40)	5230MHz	11±1	12	15.85	0.00534	1.0	Pass