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: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2, Pout = output power to antenna in mW;

G = gain of antenna in linear scale, Pi = 3.1416;

R = 20cm, distance between observation point and center of the radiator in cm.

2.4G (Antenna gain: 2.86 dBi)

	Channel	Target power	Max tune up	Max Output power	Power Density at	Limit	Result
			·		_		Resuit
	Frequency	W/ tolerance	power	to antenna (mW)	R=20cm (mW/cm²)	(mW/cm ²)	
	(MHz)	(dBm)	tolerance(dBm)				
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	2412MHz	9±1	10	10.00	0.00384	1.0	Pass
(HT20)	Z-4 1 Z I VII 1 Z	0_1					
802.11n	2437MHz	9±1	10	10.00	0.00384	1.0	Pass
(HT20)							
802.11n	2462MHz	9±1	10	10.00	0.00384	1.0	Pass
(HT20)							
802.11n	2422MHz	8±1	9	7.94	0.00305	1.0	Pass
(HT40)							
802.11n							
(HT40)	2437MHz	8±1	9	7.94	0.00305	1.0	Pass
802.11n	2452MHz	0 4	0	7.04	0.00205	1.0	Door
(HT40)	∠45ZIVI⊓Z	8±1	9	7.94	0.00305	1.0	Pass

5.2G (Antenna gain: 2.29 dBi)

	Channel	Target power	Max tune up	Max Output power	Power Density at	Limit	Result
	Frequency	W/ tolerance	power	to antenna (mW)	R=20cm (mW/cm²)	(mW/cm²)	
	(MHz)	(dBm)	tolerance(dBm)				
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	5180MHz	11±1	12	15.85	0.00534	1.0	Pass
(HT20)	STOUIVITZ	11 ± 1	12	13.03	0.00554	1.0	Fass
802.11n	5200MHz	11±1	12	15.85	0.00534	1.0	Pass
(HT20)							
802.11n	5240MHz	10±1	11	12.59	0.00424	1.0	Pass
(HT20)							
802.11	5400MU=	40 ±4	44	12.50	0.00424	1.0	Door
n(HT40)	5190MHz	10±1	11	12.59	0.00424	1.0	Pass
802.11	5230MHz	11 1	12	15.05	0.00534	1.0	Pass
n(HT40)	SZSUIVITZ	11±1	12	15.85	0.00534	1.0	rass