8. RADIO FREQUENCY EXPOSURE

8.1．Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

Table: Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Power Density (S) (mW/cm2)
0.3—1.34	*(100)
1.34—30	*(180/f^2)
30—300	0.2
300—1500	f/1500
1500—100,000	1.0

F = frequency in MHz

* = Plane-wave equivalent power density

Maximum Permissible Exposure

The MPE was calculated at 20cm to show compliance with the power density limit.

$S = PG/4\pi R^2$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna.

Note:

1. Manufacturer declared that the maximum antenna gain is 7.0dBi for TX.

2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.

3. Only record worst case data.

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802.11b

Conducted Peak output Power in dBm	12.87	dBm
Max. Conducted Peak output Power in mW	19.37	mW
Prediction distance	20	cm
Prediction frequency	2462	MHz
Antenna Gain(typical)	7.0	dBi
Antenna Gain(numeric)	5.01	
Power density at prediction frequency(S)	0.0193	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1	mW/cm^2

802.11g

Conducted Peak output Power in dBm	9.89	dBm
Max. Conducted Peak output Power in mW	9.75	mW
Prediction distance	20	cm
Prediction frequency	2462	MHz
Antenna Gain(typical)	7.0	dBi
Antenna Gain(numeric)	5.01	
Power density at prediction frequency(S)	0.0097	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1	mW/cm^2

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802.11n(HT20)

Conducted Peak output Power in dBm	9.93	dBm
Max. Conducted Peak output Power in mW	9.84	mW
Prediction distance	20	cm
Prediction frequency	2462	MHz
Antenna Gain(typical)	7.0	dBi
Antenna Gain(numeric)	5.01	
Power density at prediction frequency(S)	0.0098	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1	mW/cm^2

802.11n(HT40)

Conducted Peak output Power in dBm	6.98	dBm
Max. Conducted Peak output Power in mW	4.99	mW
Prediction distance	20	cm
Prediction frequency	2452	MHz
Antenna Gain(typical)	7.0	dBi
Antenna Gain(numeric)	5.01	
Power density at prediction frequency(S)	0.0050	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1	mW/cm^2

8.2 Test Results

The power density level worst case at 20 cm is below the uncontrolled exposure limit.