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# MPE REPORT

for

**SEANYWELL COMPANY LIMITED**

Wi-Fi Module

Model No.: XLW-002X

Prepared for : SEANYWELL COMPANY LIMITED  
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Report Number : 201210790H-1  
Date of Test : Oct. 26, 2012 to Nov. 12, 2012  
Date of Report : Nov.16, 2012

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## TEST REPORT

Applicant : SEANYWELL COMPANY LIMITED  
Manufacturer : SEANYWELL COMPANY LIMITED  
EUT : Wi-Fi Module  
Model No. : XLW-002X  
Serial No. : N/A  
Rating : DC 5V VIA ADAPTER  
Trade Mark : N/A

Measurement Procedure Used:

Section 1.1310 of FCC 47 CFR Part 1

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test : Oct. 11~21, 2012



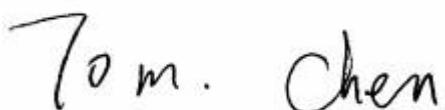
Prepared by :

(Tested Engineer / Rock Zeng )



Reviewer :

(Project Manager / Andy Chen )



Approved & Authorized Signer :

(Manager / Tom Chen)

TABLE 1 – LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0 .....	614	1.63	*(100)	6
3-30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300 .....	61.4	0.163	1.0	6
300-1500 .....	.....	.....	f/300	6
1500-100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34 .....	614	1.63	*(100)	30
1.34-30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300 .....	27.5	0.073	0.2	30
300-1500 .....	.....	.....	f/1500	30
1500-100,000 .....	.....	.....	1.0	30

Note 1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2. General population/uncontrolled exposure apply in situations in which the general public may be exposed or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

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The maximum permissible exposure for 1500~100000MHz is 1.0. So

Band	The maximum permissible exposure
802.11b	1.0 mW/cm <sup>2</sup>
802.11g	1.0 mW/cm <sup>2</sup>

**IMPORTANT NOTE:** To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

## RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided. This calculation is based on the conducted power, considering maximum power and antenna gain. The formula shown in OET Bulletin 65 is used in the calculation.

Equation from OET Bulletin 65, Edition 97-01 is:

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

Where: S=power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P=power input to the antenna (in appropriate units, e.g. mW)

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 (appropriate unit, e.g., cm)

802.11b: PG=15.87dBm+(0dBi)=15.87dBm=38mW

802.11g: PG=15.52dBm+(0dBi)=15.52dBm=35mW

R=20cm,  $\pi=3.1416$

Band	Test Result (mW/cm <sup>2</sup> )	Limit Value (mW/cm <sup>2</sup> )
802.11b	0.03	1.0
802.11g	0.028	1.0

Note: For mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

This means that according to OET bulletin 65(Edition 97-01), Supplement C(Edition 01-01), the equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of 47 CFR part 15.247 (b) (5).