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Report No.: SZEM130500277302  
Page: 1 of 5

## SAR Evaluation Report

**Application No.:** SZEM1305002773RF  
**Applicant:** Lexibook America  
**Manufacturer:** Zhongshan Readboy Electronics Co., Ltd  
**Factory:** Zhongshan Readboy Electronics Co., Ltd  
**Product Name:** Laptop  
**Model No.(EUT):** MFC141  
**FCC ID:** UU8-MFC07  
**Standards:** 47 CFR Part 1.1307(2012)  
47 CFR Part 2.1093 (2012)  
KDB447498D01 General RF Exposure Guidance v05  
**Date of Receipt:** 2013-06-06  
**Date of Test:** 2013-06-14 to 2013-06-21  
**Date of Issue:** 2013-08-06

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang  
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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### 3 General Information

#### 3.1 Client Information

Applicant:	Lexibook America
Address of Applicant:	C/O NATXIS PRAMEX INTERNATIONAL-NORTH AMERICA 1251 avenue of the Americas 34 <sup>th</sup> floor
Manufacturer:	Zhongshan Readboy Electronics Co., Ltd
Address of Manufacturer:	Industrial Park, Changmingshui, Wuguishan, Zhongshan, Guangdong, China
Factory:	Zhongshan Readboy Electronics Co., Ltd
Address of Factory:	Industrial Park, Changmingshui, Wuguishan, Zhongshan, Guangdong, China

#### 3.2 General Description of EUT

Product Name:	Laptop	
Model No.:	MFC141	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels	
Channel Separation:	5MHz	
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)	
Sample Type:	Portable production	
Test Power Grade:	10dBm (manufacturer declare )	
Test Software of EUT:	N/A(manufacturer declare )	
Antenna Type:	Integral	
Antenna Gain:	1.2dBi	
Power Supply:	Adapter:	Modle:SDF0500150A1BA INPUT:100-240V~,50/60Hz,0.18A OUTPUT:5.0V $\overline{\text{---}}$ 1.5A
	Battery:	Capacity:2800mAh 3.7V
Test Voltage:	120V/60Hz	
DC Cable:	145cm unshielded wire	

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### **3.3 Test Location**

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### **3.4 Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **VCCI**

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

### **3.5 Deviation from Standards**

None.

### **3.6 Abnormalities from Standard Conditions**

None.

### **3.7 Other Information Requested by the Customer**

None.



## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v05

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 4.1.3 EUT RF Exposure

The output power setting of EUT is set in the factory and followed the max average level in below:

Tune-up : WIFI 7.6dBm(-1.5,+1.5) dB

so the max.power of channel is 9.1dBm=8.128mW

From a KDB inquiry,the PBA Tracking Number is 284026,the appropriate min. test separation distance is 5mm

Per KDB447498 D01v05r01,we can get  $[(8.128\text{mW}/5\text{mm}) \cdot \sqrt{2.462\text{GHz}}] = 2.55 \leq 3.0$

So the SAR test is not required.