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SAR Evaluation Report

Application No.: SZEM1211006264RF

Applicant: Lexibook America

Manufacturer:Zhongshan Readboy Electronics Co., LTDFactoryZhongshan Readboy Electronics Co., LTD

Product Name: LAPTOP Model No.(EUT): MFC140

Standard: 47 CFR Part 1.1307(2011)

47 CFR Part 2.1093 (2011)

KDB447498D01 General RF Exposure Guidance v05

FCC ID: UU8-MFC04

Date of Receipt: 2012-11-27

Date of Test: 2012-11-30 to 2012-12-06

Date of Issue: 2013-01-14

Test Result: PASS*

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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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 34th floor, New York, 10020, United States		
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

Name:	LAPTOP			
Model No.	MFC140			
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
	IEEE 802.11n(HT40): 2422MHz to 2452MHz			
Modulation Type:	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:	12dBm (manufacturer declare)			
Test Software of EUT:	Adb(manufacturer declare)			
Antenna Type:	Dedicated			
Antenna Gain:	1.2dBi			
Power Supply:	AC ADAPTER			
	MODEL: SDF0500150A1BA			
	INPUT: 100-240V~50/60Hz 0.18A			
	OUTPUT: 5.0V == 1.5A			
	DC 3.7V 2800mAh Li-ion Battery			
Test Voltage:	AC 120V/60Hz			

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

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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)

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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

15.247(b)(4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6dBi. Except as shown in paragraph (c) of this section. if transmitting antennas of directional gain greater than 6dBi are used. the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1). (b)(2). and (b)(3) of this section. as appropriate. by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.1.2 Limits

According to KDB447498D01 General RF Exposure Guidance v05

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and $\leq 50 \text{ mm}$

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm			
150	39	77	116	155	194				
300	27	55	82	110	137				
450	22	45	67	89	112				
835	16	33	49	66	82				
900	16	32	47	63	79				
1500	12	24	37	49	61	SAR Test Exclusion			
1900	11	22	33	44	54	Threshold (mW)			
2450	10	19	29	38	48	1111 (11111)			
3600	8	16	24	32	40				
5200	7	13	20	26	33				
5400	6	13	19	26	32				
5800	6	12	19	25	31				
MHz	30	35	40	45	50	mm			
150	232	271	310	349	387				
300	164	192	219	246	274				
450	134	157	179	201	224				
835	98	115	131	148	164				
900	95	111	126	142	158	CAD T			
1500	73	86	98	110	122	SAR Test Exclusion			
1900	65	76	87	98	109	Threshold (mW)			
2450	57	67	77	86	96	()			
3600	47	55	63	71	79				
5200	39	46	53	59	66				
5400	39	45	52	58	65				
5800	37	44	50	56	62				

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

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4.1.3 EUT RF Exposure

The Max Conducted Average Output Power is 7.79dBm(6.0117mW) in lowest channel;

The best case gain of the antenna is 1.2dBi.

1.2dBi logarithmic terms convert to numeric result is nearly 1.3183.

According to the formula. calculate the EIRP test result:

EIRP= P x G = 6.0117 mW x 1.3183 = 7.9252 mW ①

SAR requirement:

Limit = 10mW @ 5mm ②;

1 < 2.

So the SAR report is not required.