

# 1 Cover Page

## RF Exposure Evaluation Report

**Application No.:** KSEM2108001323CR  
**FCC ID:** 2A2EX-LS001  
**Applicant:** Luxshare Electronic Technology (KunShan) Ltd.  
**Address of Applicant:** No.158,Jinchang Road,Jinxi Town,Kunshan City,JIANGSU Province,China  
**Manufacturer:** Luxshare Electronic Technology (KunShan) Ltd.  
**Address of Manufacturer:** No.158,Jinchang Road,Jinxi Town,Kunshan City,JIANGSU Province,China  
**Equipment Under Test (EUT):**  
**EUT Name:** 5G WIFI + BT5.1 Module  
**Model No.:** LS001ONWAS  
**Trade mark:** LUXSHAREICT  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
 KDB447498 D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-08-05  
**Date of Test:** 2021-09-07 to 2021-09-13  
**Date of Issue:** 2021-09-13

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

Eric Lin  
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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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Revision Record			
Version	Description	Date	Remark
00	Original	2021-09-13	/

Authorized for issue by:			
		 <hr/> Damon Zhou / Project Engineer	
		 <hr/> Eric Lin / Reviewer	



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## 2 Contents

	Page
1 COVER PAGE.....	1
2 CONTENTS .....	3
3 GENERAL INFORMATION.....	4
3.1 GENERAL DESCRIPTION OF E.U.T. ....	4
3.2 TECHNICAL SPECIFICATIONS .....	4
3.3 TEST LOCATION .....	6
3.4 TEST FACILITY.....	6
4 TEST STANDARDS AND LIMITS .....	7
4.1 FCC RADIOFREQUENCY RADIATION EXPOSURE LIMITS: .....	7
5 MEASUREMENT AND CALCULATION .....	7
5.1 MAXIMUM TRANSMIT POWER .....	7
5.2 MPE CALCULATION .....	10



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 3.3V
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#### 3.2 Technical Specifications

##### 2.4G

Antenna Gain:	2.9dBi (Provided by manufacturer)
Antenna Type:	FPC Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data Rate:	802.11b: 1/2/5.5/11Mbps, 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

##### BT

Antenna Gain:	2.9dBi (Provided by manufacturer)
Antenna Type:	FPC Antenna
Bluetooth Version:	V5.1 Dual mode
Channel Spacing:	1MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Data Raet:	1/2/3Mbps
Number of Channels:	79
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)



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BLE

Antenna Gain:	2.9dBi (Provided by manufacturer)
Antenna Type:	FPC Antenna
Bluetooth Version:	V5.1 Dual mode
Channel Spacing:	2MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz

5G

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)	5180-5240	4
		802.11n(HT40)	5190-5230	2
	UNII Band II-A	802.11a/n(HT20)	5260-5320	4
		802.11n(HT40)	5270-5310	2
	UNII Band II-C	802.11a/n(HT20)	5500-5700	11
		802.11n(HT40)	5510-5670	5
UNII Band III	802.11a/n(HT20)	5745-5825	5	
	802.11n(HT40)	5755-5795	2	
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7			
Channel Spacing:	802.11a/n(HT20): 20MHz 802.11n(HT40): 40MHz			
Antenna Gain:	Max 2.9dBi (Provided by manufacturer)			
Antenna Type:	FPC Antenna			



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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

### 3.4 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 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.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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## 4 Test Standards and Limits

### 4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSEM210800132301, KSEM210800132302, KSEM210800132303, KSEM210800132304.

#### BT

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
GFSK	2402	0.81	1.21
	2441	0.84	1.21
	2480	0.45	1.11
Pi/4DQPSK	2402	-0.37	0.92
	2441	-0.40	0.91
	2480	-0.96	0.80
8DPSK	2402	-0.10	0.98
	2441	-0.15	0.97
	2480	-0.73	0.85

#### BLE

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
1M	2402	0.91	1.23
	2440	0.94	1.24
	2480	0.56	1.14



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2.4GHz

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
11B	2412	16.96	49.66
11B	2437	17.03	50.47
11B	2462	17.12	51.52
11G	2412	15.72	37.33
11G	2437	15.78	37.84
11G	2462	15.91	38.99
11N20SISO	2412	15.18	32.96
11N20SISO	2437	14.08	25.59
11N20SISO	2462	14.19	26.24
11N40SISO	2422	14.04	25.35
11N40SISO	2437	14.06	25.47
11N40SISO	2452	14.16	26.06

5GHz

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
11A	5180	15.82	38.19
11A	5220	15.66	36.81
11A	5240	15.21	33.19
11A	5260	15.31	33.96
11A	5280	15.30	33.88
11A	5320	15.25	33.50
11A	5500	13.43	22.03
11A	5600	12.81	19.10
11A	5700	13.02	20.04
11A	5745	13.48	22.28
11A	5785	13.64	23.12
11A	5825	13.53	22.54
11N20	5180	14.78	30.06
11N20	5220	14.62	28.97
11N20	5240	14.27	26.73
11N20	5260	14.53	28.38



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11N20	5280	14.58	28.71
11N20	5320	14.49	28.12
11N20	5500	12.97	19.82
11N20	5600	11.67	14.69
11N20	5700	12.27	16.87
11N20	5745	12.69	18.58
11N20	5785	12.97	19.82
11N20	5825	12.89	19.45
11N40	5190	13.71	23.50
11N40	5230	13.65	23.17
11N40	5270	13.60	22.91
11N40	5310	13.44	22.08
11N40	5510	12.17	16.48
11N40	5590	12.08	16.14
11N40	5670	12.03	15.96
11N40	5755	12.13	16.33
11N40	5795	12.07	16.11



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### 5.2 MPE Calculation

For FCC:

According to the formula  $S = P / 4\pi R^2$ , we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) MPE limit = 1mW/cm<sup>2</sup>

Bluetooth

The max. antenna gain is 2.9 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
1.24	1.950	20	0.00048	1	Pass

For 2.4G WiFi:

The max. antenna gain is 2.9 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
51.52	1.950	20	0.01999	1	Pass



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For 5G WiFi:

The max. antenna gain is 2.9 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
38.19	1.950	20	0.01481	1	Pass

The Bluetooth, 2.4G and 5G WiFi can simultaneous transmitting at frequency, so the maximum rate of MPE is  $0.00048/1.0 + 0.01999/1.0 + 0.01481/1.0 = 0.03528 \leq 1.0$ . according to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

**--End of the Report--**



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