



# FCC RF Test Report

**APPLICANT** : Lenovo (Shanghai) Electronics Technology Co., Ltd.  
**EQUIPMENT** : Notebook Computer  
**BRAND NAME** : Lenovo  
**MODEL NAME** : Lenovo YB-J912F  
**FCC ID** : O57YBJ912F  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

This is a data re-used report which is only valid together with the original test report. We, Sporton International (KunShan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

**Sporton International (Kunshan) Inc.**

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**APPENDIX A. REFERENCE REPORT**



### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7D2101D	Rev. 01	Initial issue of report	Mar. 30, 2018



# 1 General Description

## 1.1 Applicant

Lenovo (Shanghai) Electronics Technology Co., Ltd.  
NO.68 BUILDING, 199 FENJU RD, Pilot Free Trade Zone, 200131, China

## 1.2 Manufacturer

Lenovo PC HK Limited  
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	Lenovo YB-J912F
FCC ID	O57YBJ912F
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.1 LE/ Bluetooth v4.2 LE
HW Version	Lenovo YB-J912F
SW Version	Windows 10
EUT Stage	Identical Prototype

**Remark:**The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification											
<b>Tx/Rx Frequency Range</b>	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz										
<b>Antenna Gain / Gain</b>	<b>For PC Mode:</b> <b>&lt;5150 MHz ~ 5250 MHz&gt;</b> <Ant. 1> : PIFA Antenna with gain 3.90 dBi <Ant. 2> : PIFA Antenna with gain 4.10 dBi <b>&lt;5250 MHz ~ 5350 MHz&gt;</b> <Ant. 1> : PIFA Antenna with gain 2.60 dBi <Ant. 2> : PIFA Antenna with gain 3.70 dBi <b>&lt;5470 MHz ~ 5725 MHz&gt;</b> <Ant. 1> : PIFA Antenna with gain 3.60 dBi <Ant. 2> : PIFA Antenna with gain 3.60 dBi <b>For Pad Mode:</b> <b>&lt;5150 MHz ~ 5250 MHz&gt;</b> <Ant. 1> : PIFA Antenna with gain 3.85 dBi <Ant. 2> : PIFA Antenna with gain 4.70 dBi <b>&lt;5250 MHz ~ 5350 MHz&gt;</b> <Ant. 1> : PIFA Antenna with gain 3.70 dBi <Ant. 2> : PIFA Antenna with gain 5.00 dBi <b>&lt;5470 MHz ~ 5725 MHz&gt;</b> <Ant. 1> : PIFA Antenna with gain 3.90 dBi <Ant. 2> : PIFA Antenna with gain 4.60 dBi										
<b>Antenna Function Description</b>	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11a/n/ac SISO</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11n/ac MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>			Ant. 1	Ant. 2	802.11a/n/ac SISO	V	V	802.11n/ac MIMO	V	V
	Ant. 1	Ant. 2									
802.11a/n/ac SISO	V	V									
802.11n/ac MIMO	V	V									
<b>Type of Modulation</b>	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)										

### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



## 1.6 Re-use of Measured Data

### 1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: Lenovo YB-J912F, FCC ID: O57YBJ912F) is electrically identical to the reference device (Model: Lenovo YB-J912L, FCC ID: O57YBJ912L) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

### 1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Operational Description.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FR810315D for the reference device Model: Lenovo YB-J912L, FCC ID: O57YBJ912L):

### 1.6.3 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for radiated spurious emission, the test result were consistent with FCC ID: O57YBJ912L.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

### 1.6.4 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
NII (B1~B3)	O57YBJ912L	Part15E(FR810315D)	All sections applicable
NII (B4)	O57YBJ912L	Part15E(FR810315E)	All sections applicable



## **Appendix A. Reference Report**

Please refer to Sporton report number FR810315D which is issued separately.