



FCC RF Test Report

APPLICANT : Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT : Portable Tablet Computer
BRAND NAME : Lenovo
MODEL NAME : Lenovo YB1-X90L
FCC ID : O57YB1X90L1
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.

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APPENDIX A. REFERENCE REPORT



1 General Description

1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

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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	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo YB1-X90L
FCC ID	O57YB1X90L1
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/ WLAN2.4GHz 802.11b/g/n HT20/ WLAN5GHz 802.11a/n HT20/HT40/ WLAN5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE
HW Version	Lenovo YB1-X90L
SW Version	YB1-X90L_170110
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			
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz		
Antenna Type	PIFA Antenna		
Antenna Gain	<5180 MHz ~ 5240 MHz>: Chain Port 1 : 0.63 dBi Chain Port 2 : 0.30 dBi <5260 MHz ~ 5320 MHz>: Chain Port 1 : 1.20 dBi Chain Port 2 : 0.60 dBi <5500 MHz ~ 5700 MHz>: Chain Port 1 : 0.09 dBi Chain Port 2 : -0.30 dBi		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function Description		Chain Port 1	Chain Port 2
	802.11 a	V	V
	802.11 n/ac SISO	V	V
	802.11 n/ac MIMO	V	V

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 YB1-X90L, FCC ID: O57YB1X90L1) is electrically identical to the reference device (Model: Lenovo YB1-X90L, FCC ID: O57YB1X90L) 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. FR662015D for the reference device Model: Lenovo YB1-X90L, FCC ID: O57YB1X90L):

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: O57YB1X90L.

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 (B1~3)	O57YB1X90L	Part15E(FR662015D)	All sections applicable
NII (B4)	O57YB1X90L	Part15E(FR662015E)	All sections applicable
NII (DFS)	O57YB1X90L	Part15E(FZ662015)	All sections applicable



Appendix A. Reference Report

Please refer to Sporton report number FR662015D which is issued separately.