Partial FCC RF Test Report

APPLICANT : LC Future Center

7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City

Report No.: FW9D0702

104. Taiwan

MANUFACTURER : LC Future Center Limited Taiwan Branch

7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City

104, Taiwan

EQUIPMENT: Notebook Computer

BRAND NAME : Lenovo
MODEL NAME : TP00110B

FCC ID : 2AJN7-TP00110B

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION: PCS Licensed Transmitter (PCB)

Equipment: Fibocom L850-GL and Intel AX201D2W tested inside of Lenovo Notebook Computer. 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 procedures given in ANSI C63.26-2015 and shown 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.

Reviewed by: Jason Jia / Supervisor

James Huang

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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Cert #5145.02

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW9D0702	Rev. 01	Initial issue of report	Feb. 14, 2020
FW9D0702	Rev. 02	Revised the Applicant information	Feb. 25, 2020

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power and ERP	-	Reporting only	-
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 33.29 dB at 2444.00 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

LC Future Center

7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan

1.2 Manufacturer

LC Future Center Limited Taiwan Branch

7F., No.780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00110B
FCC ID	2AJN7-TP00110B
Sample 1	EUT with Amphenol Antenna
Sample 2	EUT with SPEEDWIRE Antenna
	WCDMA/ LTE/NFC/GNSS
EUT cumparts Badias application	WLAN 2.4GHz 802.11b/g/n
EUT supports Radios application	WLAN 5GHz 802.11a/n/ac/ax
	Bluetooth BR/EDR/LE
SW Version	N/A
EUT Stage	Production Unit

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Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. Equipment: Fibocom L850-GL and Intel AX201D2W tested inside of Lenovo Notebook Computer.
- 3. All test items were performed with Sample 1

WWAN Antenna Information								
Antenna 1	Manufacturer	Amphenol	Peak gain (dBi)	2.3				
Antenna i	Part number	LX9865-16-000-C	Туре	PIFA				
Antonno 2	Manufacturer	SPEEDWIRE	Peak gain (dBi)	2.07				
Antenna 2	Part number	F.0G.ZV-0008-001-00	Туре	PIFA				

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1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814.7 ~ 823.3 MHz						
Rx Frequency	859.7 ~ 868.3 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	22.90 dBm						
Antenna Gain	1.39 dBi						
Type of Modulation	QPSK / 16QAM						

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1.5 Modification of EUT

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

1.6 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (F	Sporton International (Kunshan) Inc.							
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone								
Test Site Location	Jiangsu Province 215300 People's Republic of China								
rest one Location	TEL: +86-512-57900158								
	FAX: +86-512-57900958								
	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						
Test Site No.	03CH06-KS TH01-KS	CN1257	314309						

1.7 Test Software

Item	Site	Manufacture	Name	Version	
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al	

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1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 10th harmonic

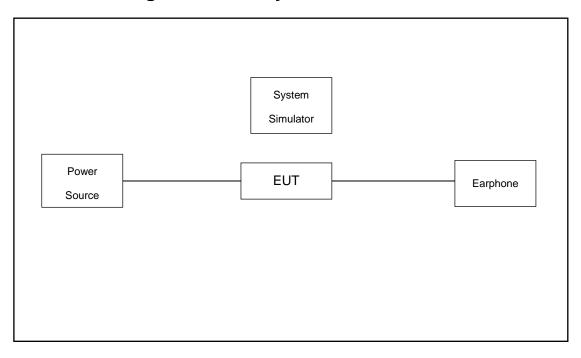
Tool Home	Dand		Ва	ndwid	lth (MH	lz)		Modu	lation	R		RB# Test		est Channel	
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	٦	М	Н
Max. Output Power	26	v	٧	v	v	v	-	٧	v	v	v	v	٧	v	v
E.R.P.	26					v	-	v	v	٧	٧	v	٧		
Radiated Spurious Emission	26		Worst case							•	v	-			
Note			mark "v" means that this configuration is chosen for testing mark "-" means that this bandwidth is not supported.												

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

	LTE Band 26 Ch	annel and Frequen	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26765	-	-
15	Frequency	821.5	-	-
10	Channel	-	26740	-
10	Frequency	-	819	-
5	Channel	26715	26740	26765
5	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
3	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
1.4	Frequency	814.7	819	823.3

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

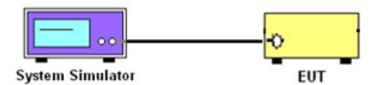
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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3.2 Conducted Output Power and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

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3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

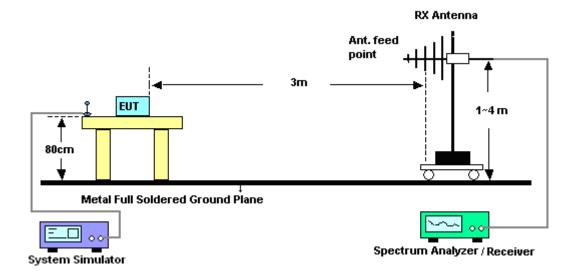
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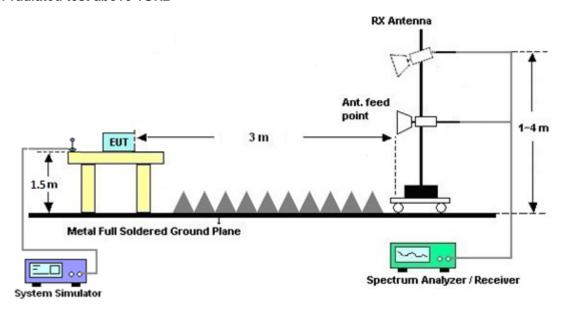


3.3.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.3.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix A.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio communication analyzer	Anritsu	MT8820C	6201432830	LTE_FDD full band	Jan. 14, 2019	Dec. 26, 2019	Jan. 13, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 16, 2019	Dec. 17, 2019	Apr. 15, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Dec. 17, 2019	Dec. 27, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 27, 2019	Dec. 17, 2019	Jan. 26, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Dec. 17, 2019	Aug. 05, 2020	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2019	Dec. 17, 2019	Apr. 16, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 17, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 17, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 17, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

	_
Measuring Uncertainty for a Level of	2.540
Confidence of 95% (U = 2Uc(y))	2.5dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	2.1dB
Confidence of 95% (U = 2Uc(y))	2.105

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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

	LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
15	1	0		22.85					
15	1	37		22.75					
15	1	74		22.57					
15	36	0	QPSK	21.79					
15	36	20		21.76					
15	36	39		21.76					
15	75	0		21.73					
15	1	0		21.95	-	-			
15	1	37		22.03					
15	1	74		21.90					
15	36	0	16-QAM	20.95					
15	36	20		20.97					
15	36	39		20.88					
15	75	0		21.03					

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LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
10	1	0					22.82	
10	1	25			22.69			
10	1	49			22.73			
10	25	0	QPSK		21.81			
10	25	12			21.77			
10	25	25			21.79			
10	50	0			21.79			
10	1	0		-	21.98	-		
10	1	25			21.96			
10	1	49			22.04			
10	25	0	16-QAM		20.87			
10	25	12			20.83			
10	25	25			20.86			
10	50	0			20.89			
5	1	0		22.76	22.80	22.75		
5	1	12		22.75	22.76	22.71		
5	1	24		22.66	22.64	22.48		
5	12	0	QPSK	21.85	21.82	21.57		
5	12	7		21.89	21.85	21.68		
5	12	13		21.94	21.86	21.55		
5	25	0		21.86	21.72	21.70		
5	1	0		22.04	21.98	21.99		
5	1	12		21.99	21.94	21.94		
5	1	24		21.98	21.95	21.95		
5	12	0	16-QAM	21.01	20.85	20.73		
5	12	7		20.96	20.88	20.63		
5	12	13		21.03	20.83	20.72		
5	25	0		21.01	20.83	20.80		

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LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
3	1	0		22.76	22.90	22.63		
3	1	8		22.68	22.60	22.66		
3	1	14		22.65	22.71	22.65		
3	8	0	QPSK	21.85	21.90	21.55		
3	8	4		21.89	21.86	21.57		
3	8	7		21.94	21.69	21.62		
3	15	0		21.86	21.83	21.77		
3	1	0		22.04	22.03	21.95		
3	1	8		21.95	22.02	21.96		
3	1	14		21.98	21.99	21.96		
3	8	0	16-QAM	21.01	20.82	20.64		
3	8	4		20.96	20.86	20.63		
3	8	7		21.03	20.92	20.75		
3	15	0		21.01	20.82	20.73		
1.4	1	0		22.76	22.75	22.68		
1.4	1	3		22.65	22.67	22.65		
1.4	1	5		22.66	22.82	22.59		
1.4	3	0	QPSK	22.45	22.39	22.57		
1.4	3	1		22.49	22.55	22.58		
1.4	3	3		22.54	22.59	22.64		
1.4	6	0		21.86	21.85	21.79		
1.4	1	0		22.04	22.03	22.04		
1.4	1	3		21.95	21.98	21.80		
1.4	1	5		21.98	22.02	21.90		
1.4	3	0	16-QAM	22.01	21.95	21.69		
1.4	3	1		21.96	21.86	21.62		
1.4	3	3		22.03	21.83	21.65		
1.4	6	0		21.01	20.91	20.69		

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Appendix B. Test Results of ERP and Radiated Test



<Report Only>

and port only?									
LTE Band 26 / 15MHz (Channel 26765) (GT - LC = 1.39 dB)									
Channel Mode	Ma Ia	RB		Conducted		ERP			
	Wode	Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)		
Lowest		1	0	22.85	0.19	22.09	0.16		
Middle	QPSK	-	-	-	-	-	-		
Highest		-	-	-	-	-	-		
Lowest		1	37	22.03	0.16	21.27	0.13		
Middle	16QAM	-	-	-	-	-	-		
Highest		-	-	-	-	-	-		
Limit	ERP < 7W			Result PASS			SS		

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Radiated Spurious Emission

LTE Band 26 / 10MHz / QPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1629.18	-53.58	-13	-40.58	-60.55	1.58	10.70	Н		
	2444.00	-46.29	-13	-33.29	-54.54	2.102	12.50	Н		
	3258.00	-54.27	-13	-41.27	-63.16	2.856	13.90	Н		
	1630.00	-50.09	-13	-37.09	-57.06	1.58	10.70	V		
	2443.77	-46.77	-13	-33.77	-55.02	2.10	12.50	V		
	3258.00	-58.57	-13	-45.57	-67.46	2.86	13.90	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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