

Report No.: FG9N2705-01E



FCC RADIO TEST REPORT

FCC ID : O57FLEX5G14X05 Equipment : Notebook Computer

Brand Name : Lenovo

Model Name : Lenovo Flex 5G 14Q8CX05********, 82AK*******, Yoga

5G 14Q8CX05********, 81XE******** (* = 0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact

on RF compliance of the product)

Applicant : Lenovo (Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone, Shanghai

Manufacturer : Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place, 979 King's Road,

Quarry Bay, Hong Kong

Standard : FCC 47 CFR Part 2, Part 27(D)

Equipment: Murata LBDD5WV1US-575 and HON LIN T99W175 tested inside of Lenovo Notebook Computer.

The product was received on Sep. 23, 2020 and testing was started from Sep. 28, 2020 and completed on Oct. 02, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Lunis Win

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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E-mail: Alex@sporton.com.tw
Report Template No.: BU5-FGLTE27D Version 2.4

Report Version : 01

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History of this test report

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Report No.	Version	Description	Issued Date
FG9N2705-01E	01	Initial issue of report	Oct. 14, 2020

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1046	Conducted Output Power and Effective Isotropic Radiated Power	Not Required	-
-	-	Peak-to-Average Ratio	Not Required	-
-	§27.50 (a)(3)	EIRP Power Density Not Requ		-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Not Required	-
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	Not Required	-
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Not Required	-
3.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 4.90 dB at 6924.000 MHz

Remark:

- 1. Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by enable 5G NR FR1 via SW. All the test cases were performed on original report which can be referred to Sporton Report Number FG9N2705E. Based on the original report, the test cases were verified.

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.

Reviewed by: Wii Chang

Report Producer: Celery Wei

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1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature							
Equipment	Notebook Computer						
Brand Name	Lenovo						
Model Name	Lenovo Flex 5G 14Q8CX05*********, 82AK********, Yoga 5G 14Q8CX05*******, 81XE******** (* = 0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)						
FCC ID	O57FLEX5G14X05						
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT8 Bluetooth BR/EDR/LE						
EUT Stage	Production Unit						

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Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Murata LBDD5WV1US-575 and HON LIN T99W175 tested inside of Lenovo Notebook Computer.

Antenna Information											
WWAN		3G<E (dBi)									
	Antenna Type	Main: PIFA Antenna	Aux: PIFA Antenna								
Notebook Mode	Part number	AUF6Y-100015 (DC33002DB00)	AUF6Y-100017 (DC33002DB30)								
	Peak gain (dbi)	Main Antenna :	Aux. Antenna :								
	r cak gair (dbi)	2.95	2.85								
	Antenna Type	Main: PIFA Antenna	Aux: PIFA Antenna								
Tablet Mode	Part number	AUF6Y-100015 (DC33002DB00)	AUF6Y-100017 (DC33002DB30)								
	Peak gain (dbi)	Main Antenna :	Aux. Antenna :								
		2.02	0.92								

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard								
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz							
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz							
Bandwidth	LTE Band 30 : 5MHz / 10MHz							
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM							

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1.3 Modification of EUT

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

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory				
Test Site Location No.58 , Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan					
Test Site No.	Sporton Site No.				
rest Site No.	03CH13HY				
Test Engineer	Daniel Lee, Jacky Hong and Wilson Wu				
Temperature	21.5~25.5℃				
Relative Humidity	49.5~55.5%				

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Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No. TW0007

1.5 Applied Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

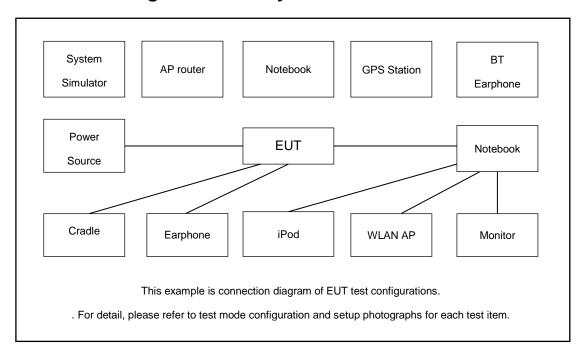
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, pre-scanned in three orthogonal panels X, Y, Z and Notebook Mode. The worst cases (Notebook Mode with Accessory) were recorded in this report.

			Bandwidth (MHz)				Modulation			RB#			Test Channel				
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Radiated																	
Spurious	30	-	-	v		-	-				v	٧			٧	٧	v
Emission																	
	1. T	1. The mark "v" means that this configuration is chosen for testing															
	2. The mark "-" means that this bandwidth is not supported.																
Remark	3. T	he device	is inve	stigate	d from	30MH	z to 10	times o	f fundan	nental sig	gnal for rad	diated	spurio	us emi:	ssion t	est und	der
	di	fferent RE	3 size/c	offset a	nd mod	dulation	ns in ex	plorato	ry test. S	Subseque	ently, only	the wo	orst cas	se emis	ssions	are	
	re	ported.									-						

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord	
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m	
2.	Earphone	Sony	MH750	N/A	Unshielded, 1.2 m	N/A	

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2.4 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest						
5	Channel	27685	27710	27735						
5	Frequency	2307.5	2310	2312.5						

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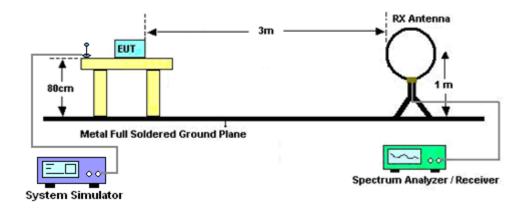
3 Radiated Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

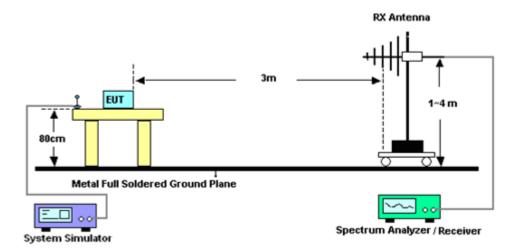
3.1.1 Test Setup

For radiated test below 30MHz



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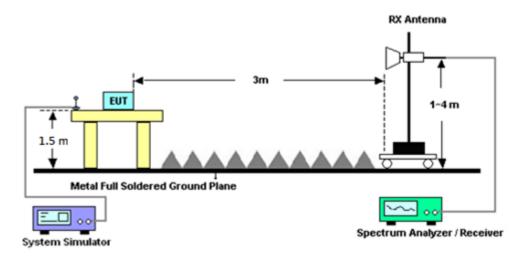
For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



3.1.2 Test Result of Radiated Test

Please refer to Appendix A.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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3.2 Radiated Spurious Emission Measurement

3.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

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The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the 6. record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

```
EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
ERP (dBm) = EIRP - 2.15
```

The RF fundamental frequency should be excluded against the limit line in the operating 1. frequency band.

The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [70 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [70 + 10log(P)] (dB)
- = -40dBm.

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4 List of Measuring Equipment

					Calibration			
Instrument	Brand Name	Model No.	Serial No.	Characteristics	Date	Test Date	Due Date	Remark
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Sep. 28, 2020~ Oct. 02, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Sep. 28, 2020~ Oct. 02, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	41912 & 07	30MHz to 1GHz	Apr. 29, 2020	Sep. 28, 2020~ Oct. 02, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 20, 2020	Sep. 28, 2020~ Oct. 02, 2020	May 19, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-124 1	1GHz ~ 18GHz	Jul. 15, 2020	Sep. 28, 2020~ Oct. 02, 2020	Jul. 14, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Sep. 28, 2020~ Oct. 02, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2019	Sep. 28, 2020~ Oct. 02, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Sep. 28, 2020~ Oct. 02, 2020	Feb. 14, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 20, 2020	Sep. 28, 2020~ Oct. 02, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 28, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Sep. 28, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 28, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-00099 2	N/A	N/A	Sep. 28, 2020~ Oct. 02, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Sep. 28, 2020~ Oct. 02, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	Sep. 28, 2020~ Oct. 02, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	Sep. 28, 2020~ Oct. 02, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	Sep. 28, 2020~ Oct. 02, 2020	Feb. 24, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 12, 2020	Sep. 28, 2020~ Oct. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30M-18G	Feb. 12, 2020	Sep. 28, 2020~ Oct. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Sep. 28, 2020~ Oct. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 10, 2019	Sep. 28, 2020~ Oct. 02, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 980	18GHz~40GHz	Jan. 10, 2020	Sep. 28, 2020~ Oct. 02, 2020	Jan. 09, 2021	Radiation (03CH13-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 13, 2020	Sep. 28, 2020~ Oct. 02, 2020	Jul. 12, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-108 0-1200-15000 -60SS	SN3	1.2GHz High Pass Filter	Jul. 02, 2020	Sep. 28, 2020~ Oct. 02, 2020	Jul. 01, 2021	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP190075	N/A	Apr. 23, 2020	Sep. 28, 2020~ Oct. 02, 2020	Apr. 22, 2021	Radiation (03CH13-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Sep. 28, 2020~ Oct. 02, 2020	Jul. 13, 2021	Radiation (03CH13-HY)

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.10

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

Measuring Uncertainty for a Level of	2 12
Confidence of 95% (U = 2Uc(y))	3.12

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2.77
Confidence of 95% (U = 2Uc(y))	3.77

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Appendix A. Test Results of Radiated Test

LTE Band 30

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	LTE Band 30 / 5MHz / 256QAM										
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Lowest	4610	-55.77	-40	-15.77	-46.77	-65.81	2.06	12.10	Н		
	6916	-51.19	-40	-11.19	-48.81	-59.78	2.39	10.98	Н		
	9221	-59.67	-40	-19.67	-62.03	-69.58	2.23	12.13	Н		
	4610	-52.82	-40	-12.82	-44.54	-62.86	2.06	12.10	V		
	6916	-46.34	-40	-6.34	-44.57	-54.93	2.39	10.98	V		
	9221	-60.42	-40	-20.42	-62.22	-70.33	2.23	12.13	V		
Middle	4614	-56.01	-40	-16.01	-47.04	-66.05	2.06	12.10	Н		
	6924	-51.37	-40	-11.37	-48.99	-59.95	2.39	10.98	Н		
	9234	-58.95	-40	-18.95	-61.31	-68.85	2.22	12.12	Н		
	4614	-52.90	-40	-12.90	-44.64	-62.94	2.06	12.10	V		
	6924	-44.90	-40	-4.90	-43.13	-53.48	2.39	10.98	V		
	9234	-60.30	-40	-20.30	-62.07	-70.20	2.22	12.12	V		
Highest	4620	-56.51	-40	-16.51	-47.57	-66.55	2.06	12.10	Н		
	6931	-50.71	-40	-10.71	-48.34	-59.28	2.40	10.97	Н		
	9241	-59.41	-40	-19.41	-61.77	-69.30	2.22	12.11	Н		
	4620	-51.60	-40	-11.60	-43.37	-61.64	2.06	12.10	V		
	6931	-44.96	-40	-4.96	-43.21	-53.53	2.40	10.97	V		
	9241	-59.64	-40	-19.64	-61.38	-69.53	2.22	12.11	V		

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

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