

Test Report No:
25B0338R-RFUSV16S-A

TEST REPORT

FCC Rules & Regulations

Product Name	Notebook Computer
Brand Name	Lenovo
Model No.	TP00177A
FCC ID	2AJN7-TP00177AR
Contains FCC ID	PD9BE211D2
Applicant's Name / Address	LC Future Center 7F., No.780 Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan
Manufacturer's Name	LC Future Center
Test Method Requested, Standard	FCC 47 CFR Part 15C, Part 15E, Part 22, Part 27, Part 90 (co-location) KDB Publication 996369
Verdict Summary	IN COMPLIANCE
Documented by Genie Chang	<i>Genie Chang</i>
Approved By Will Chen	<i>Will Chen</i>
Date of Receipt	2025/11/12
Date of Issue	2026/02/23
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	2026/02/23

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	Radiated Emission	PASS	-
Note: - These tests were conducted on a sample for the purpose of demonstrating compliance of transmitter with simultaneous transmit (co-location). - There consider simultaneous transmit (co-location) based on KDB 996369 D02 Question 1 and KDB 996369 D04 for Radiated Emission. - The antenna gain and output power are both comply with the original certification, the final product complies with the ERP/EIRP rules. - The final test results meets all the applicable FCC rules. - Pre-Scan has been conducted to determine the worst-case mode from all possible combinations and recorded worst-case on the report. - Because NFC operates at a much lower frequency than WLAN and WWAN, the NFC mode was not activated during this test.			

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.

1. General Information

1.1. EUT Description

Contains FCC ID (WLAN)	PD9BE211D2
Contains FCC ID (WWAN)	2AX2URW220GL

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	Power Adapter	Acbel	ADL100YAC3A	Input: 100-240V~1.6A 50-60Hz Output: 20.0V $\overline{=}$ 5A 100.0W 15.0V $\overline{=}$ 3.0A / 9.0V $\overline{=}$ 3.0A / 5.0V $\overline{=}$ 3.0A 15.0W	With power cable: Non-Shielded, 1.8m
No.	Equipment Name	Description			
2	Power Cord	Non-Shielded, 1m			

Antenna Information (PPS Platform)					
WLAN Antenna 1	Manufacturer	AWAN			
	Antenna Type	PIFA Antenna		PIFA Antenna	
	Part number	DC33002BF00		DC33002BF00	
	Peak gain (dBi)	Main Antenna		Aux Antenna	
		2400 MHz	2.38	2400 MHz	0.74
		5200 MHz	2.03	5200 MHz	0.89
		5300 MHz	2.53	5300 MHz	1.44
		5600 MHz	4.16	5600 MHz	1.94
		5800 MHz	3.98	5800 MHz	1.94
		5900 MHz	3.92	5900 MHz	-0.49
		6200 MHz	4.33	6200 MHz	0.53
		6500 MHz	3.58	6500 MHz	0.78
		6700 MHz	3.58	6700 MHz	1.36
		7000 MHz	1.78	7000 MHz	2.75
WLAN Antenna 2	Manufacturer	Luxshare-ICT			
	Antenna Type	PIFA Antenna		PIFA Antenna	
	Part number	DC33002BM00		DC33002BM00	
	Peak gain (dBi)	Main Antenna		Aux Antenna	
		2400 MHz	2.38	2400 MHz	0.74
		5200 MHz	2.03	5200 MHz	0.89
		5300 MHz	2.53	5300 MHz	1.44
		5600 MHz	4.16	5600 MHz	1.94
		5800 MHz	3.98	5800 MHz	1.94
		5900 MHz	3.92	5900 MHz	-0.49
		6200 MHz	4.33	6200 MHz	0.53
		6500 MHz	3.58	6500 MHz	0.78
		6700 MHz	3.58	6700 MHz	1.36
		7000 MHz	1.78	7000 MHz	2.75

WWAN Antenna 1	Manufacturer	AWAN		
	Antenna Type	PIFA Antenna		PIFA Antenna
	Part number	DC33002BF30		DC33002BF30
	Peak gain (dBi)	Main Antenna		Aux Antenna
		Band 5	-3.29	RX only
		Band 12	-3.03	
		Band 26	-3.29	
WWAN Antenna 2	Manufacturer	Luxshare-ICT		
	Antenna Type	PIFA Antenna		PIFA Antenna
	Part number	DC33002BM30		DC33002BM30
	Peak gain (dBi)	Main Antenna		Aux Antenna
		Band 5	-3.29	RX only
		Band 12	-3.03	
		Band 26	-3.29	

Note: Only the higher gain antenna was tested and recorded in this report.

1.2. EUT Information

EUT Power Type	From Adapter
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1.3. Testing Location Information

USA	FCC Designation Number: TW0033 / FCC Registration Number: 647365
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No. 85, Wenlin St., Linkou Dist., New Taipei City 244017, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual	Test Date	Tested By
Radiated Emission	Temperature (°C)	10~40 °C	20.8 °C	2026/02/12	Rock Liang
	Humidity (%RH)	10~90 %	65.2 %		

1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Item	Uncertainty
Radiated Emission	9 kHz~30 MHz: ± 3.30 dB
	30 MHz~1 GHz: ± 5.19 dB
	1 GHz~18 GHz: ± 4.46 dB
	18 GHz~40 GHz: ± 4.19 dB

1.5. List of Test Equipment

For Radiated Measurements /HY-CB03

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
Loop Antenna	TESEQ	HLA6121	49611	2026/02/04	2027/02/03
Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2025/08/14	2027/08/13
Horn Antenna	Com-Power	AH-840	101100	2025/10/07	2027/10/06
Horn Antenna	RF SPIN	DRH18-E	210507A18ES	2024/05/15	2026/05/14
Pre-Amplifier	SGH	SGH0301-9	20211007-11	2026/01/10	2027/01/09
Pre-Amplifier	SGH	PRAMP118	20200701	2026/01/10	2027/01/09
Pre-Amplifier	EMCI	EMC05820SE	980310	2026/01/10	2027/01/09
Pre-Amplifier	EMCI	EMC184045SE	980369	2026/01/10	2027/01/09
Coaxial Cable	EMCI	EMC102-KM-KM-600	160311	2026/01/10	2027/01/09
Coaxial Cable	SGH	HC360-2.92M/2.92M-7.0M	202108-1	2026/01/10	2027/01/09
EMI Test Receiver	R&S	ESR3	102793	2025/12/01	2026/11/30
Spectrum Analyzer	R&S	FSV3044	101114	2025/02/26	2026/02/25
Coaxial Cable	SGH	SGH18	2021005-1	2026/01/10	2027/01/09
Coaxial Cable	SGH	SGH18	202108-4	2026/01/10	2027/01/09
Coaxial Cable	SGH	HA800	GD20110223-1	2026/01/10	2027/01/09
Coaxial Cable	SGH	HA800	GD20110222-8	2026/01/10	2027/01/09
Wideband Radio Communication Tester	Anritsu	MT8000A	6262134961	2025/05/14	2026/05/13

Note: Test Software Version: e3 230303 dekra V9.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

2.2. Test Frequency Mode

Test Software Version	DRTU / Version 08788.23.160.0
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2.3. Measurement Configuration

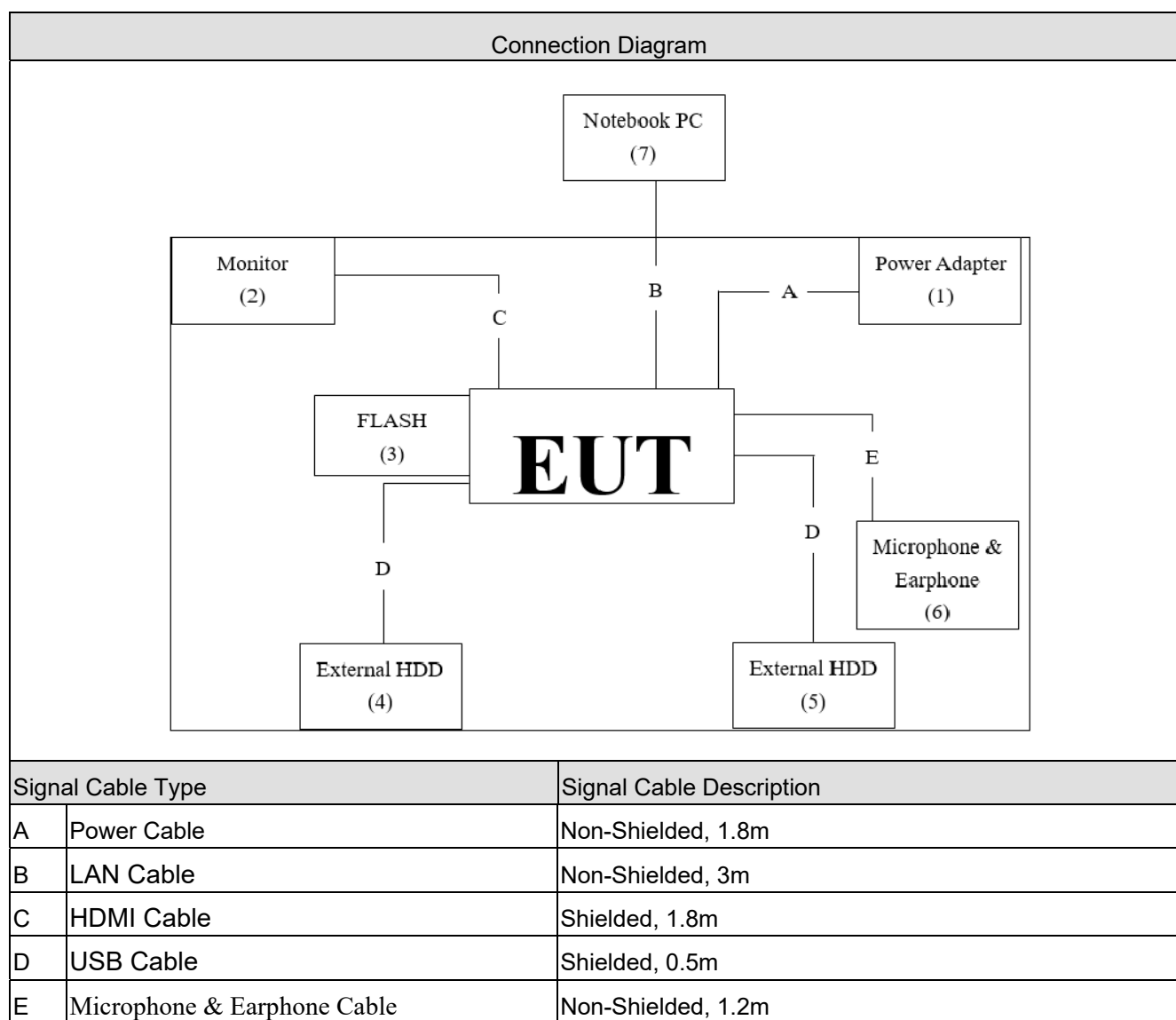
Test Mode	Mode 1	LTE_B12_10M_QPSK_1RB0_CH23095+TX_be20_2462MHz
	Mode 2	LTE_B26_10M_QPSK_1RB0_CH26740+TX_be20_5745MHz
	Mode 3	LTE_B5_10M_QPSK_1RB0_CH20450+TX_ax20_5955MHz
	Mode 4	LTE_B12_10M_QPSK_1RB0_CH23095
	Mode 5	LTE_B26_10M_QPSK_1RB0_CH26740
	Mode 6	LTE_B5_10M_QPSK_1RB0_CH20450

Note: Determining compliance shall be based on the results of the compliance measurement, without taking measurement instrumentation uncertainty into account.

2.4. Tested System Details

No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Power Adapter	Acbel	ADL100YAC3A	N/A	N/A
2	Monitor	Lenovo	H20215FE0	VY549765	N/A
3	FLASH	Transcend	JetFlash 790C/64GB	N/A	N/A
4	External HDD	TeraSys	F12-UF	A0100215-64b0006	N/A
5	External HDD	TeraSys	F12-UF	A0100215-64b0014	N/A
6	Microphone & Earphone	RONEVER	MOE241	N/A	N/A
7	Notebook PC	Lenovo	TP00067C	PF-0EW0C3	N/A

2.5. Configuration of tested System



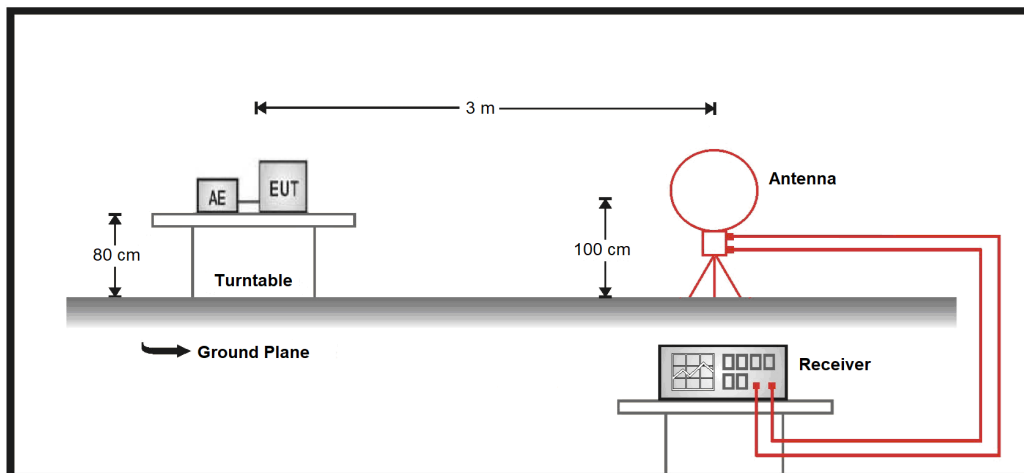
2.6. EUT Operating Procedures

1	Setup the EUT as shown in Section 2.5.
2	Execute software "DRTU / Version 08788.23.160.0" on the Notebook PC.
3	Configure the test mode, the test channel, and the data rate.
4	Setup the EUT connect to the base station.
5	Setup the parameter (test band, test channel, frequency).
6	The EUT will continue receive the signal from WWAN function.
7	Verify that the EUT works properly.

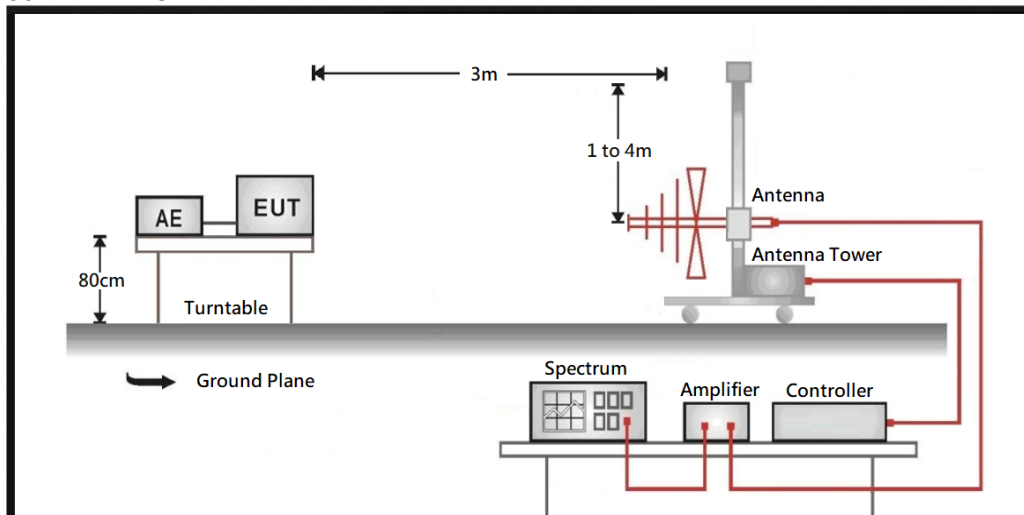
3. Radiated Emission

3.1. Test Setup

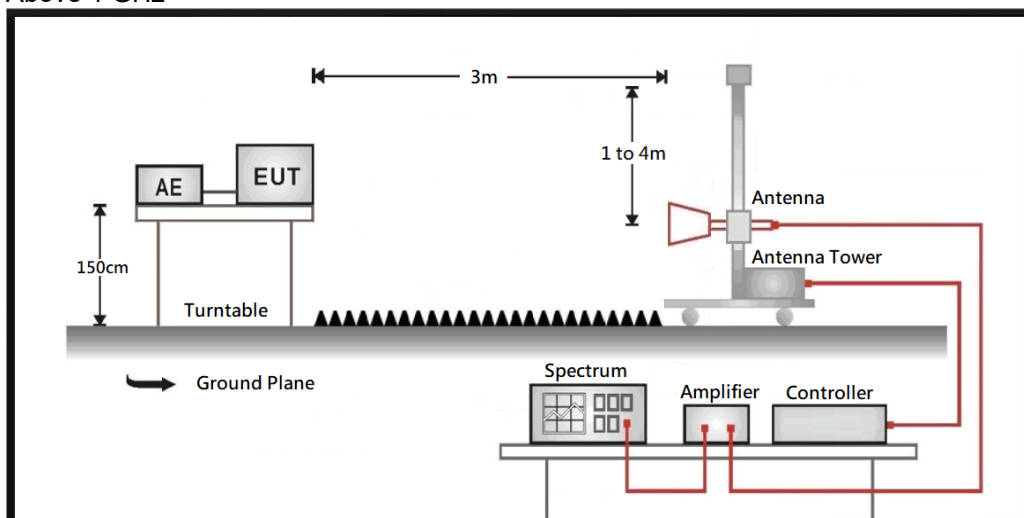
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



3.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10-2020 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

3.4. Test Result of Radiated Emission

Refer as Appendix A