

FCC Radio Test Report

FCC ID: PU5-LN300WG3L

Report No. Equipment Model Name Brand Name Applicant Address	 BTL-FCCP-16-2102T172A Notebook Computer Lenovo 300w Gen 3xxxxxxx (The "x" in model name can be 0 to 9, A to Z, a to z, "-" or blank, for marketing purpose only) Lenovo Wistron Corporation 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan
Radio Function	: LTE Band 26
FCC Rule Part(s)	 47 CFR FCC Part 90 Subpart S ANSI C63.26-2015
Measurement	ANSI/TIA-603-E-2016
Procedure(s)	FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
Date of Receipt	: 2021/3/12
Date of Test	: 2021/3/12 ~ 2021/3/31
Issued Date	: 2021/4/27

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

noh

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REVISON HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-16-2102T172A	R00	Original Report.	2021/4/27



1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

	FCC Clause No	Description	Test Result	Judgement	Remark
•	15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
	2.1053 90.669	Radiated Spurious Emissions	APPENDIX B	Pass	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) The WWAN test result refer FCC ID: PU5-LN300WG3D that the system of 2 FCC IDs (WWAN system IDs) are identical HW design of system, the same WWAN module and WWAN + WLAN antennas. The only difference is different FCC ID contains different certified WLAN module.
- (4) After spot check, this revision does not change original radio parameters.



1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 68	3-1, Ln. 16	69, Sec. 2, D	atong Rd.	, Xizhi Dist., I	New Ta	ipei City 221,	Taiwan	
The te	est sites a	nd facilities a	are covere	d under FCC	RN: 67	74415 and DN	: TW0659	
\boxtimes	C05		CB08		CB11	\boxtimes	CB15	CB16

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = 2$, providing a level of confidence of approximately **95** %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB15	1 GHz ~ 6 GHz	5.21
CB15	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	20 °C, 72 %	AC 120V	Vincent Lee
Radiated Spurious Emissions	Refer to data	AC 120V	Jay Kao



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer	Notebook Computer				
Model Name		Lenovo 300w Gen 3xxxxxxxx (The "x" in model name can be 0 to 9, A to Z, a to z, "-" or blank, for marketing purpose only)				
Brand Name	Lenovo					
Model Difference	Different model distri	bute to different area.				
Power Source	DC voltage supplied	from External Power Supply.	(Lenovo/ADLX45YLC3D)			
Power Rating		I/P: 100-240V~1.3A 50-60Hz O/P: 20.0V2.25A 45.0W / 15.0V3.0A / 9.0V2.0A / 5.0V2.0A 10.0W				
Products Covered	1 * Adapter: Lenovo/	ADLX45YLC3D				
WIFI+BT Module	Realtek / RTL8822C	E				
WWAN Module	Fibocom / L850-GL					
Operation Frequency	Band	UL Frequency (MHz)	DL Frequency (MHz)			
Operation Frequency	LTE 26 814 ~ 849 859 ~ 894					
Test Model	Lenovo 300w Gen 3	Lenovo 300w Gen 3				
Sample Status	Engineering Sample	Engineering Sample				
EUT Modification(s)	N/A					

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Table for Filed Antenna:

Antenna	Manufacture	P/N	Туре	Connector	Gain (dBi)	Note
Main	INPAQ Corporation	025.901TX.0001	PIFA	I-PEX	-5.67	LTE Band 26
Aux	INPAQ Corporation	025.901TY.0001	PIFA	I-PEX	-	RX only

2.2 TEST MODES

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Radiated Spurious Emissions	LTE Band 26	TX Mode (CH 26765)	-

NOTE:

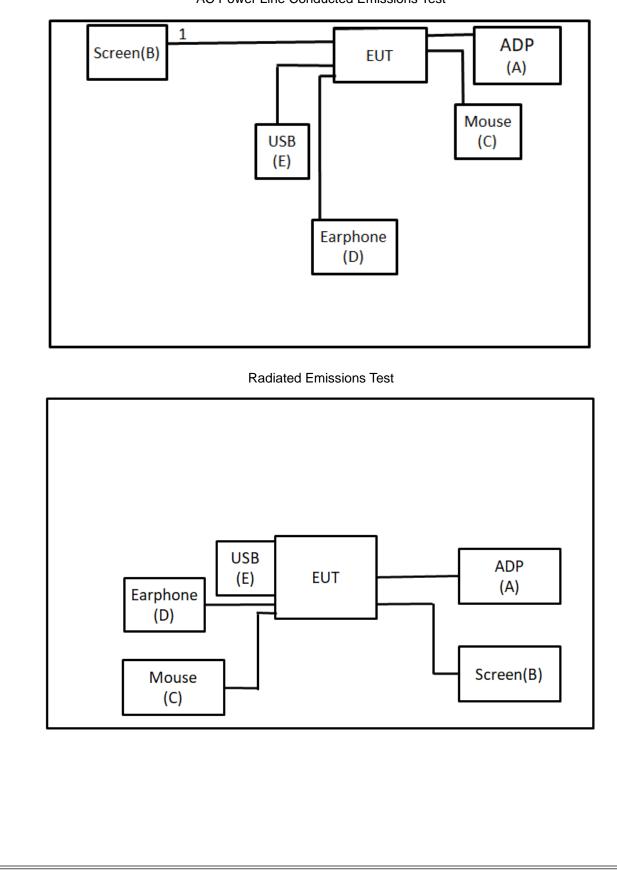
(1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.

(2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.



2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



AC Power Line Conducted Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	ADP	Lenovo	ADLX45YLC3D	N/A	Supplied by test requester.
В	Screen	ASUS	MX27U	N/A	Furnished by test lab.
С	Mouse	ACER	MP-368	N/A	Furnished by test lab.
D	Earphone	Sony	MDR-E9LP	N/A	Furnished by test lab.
E	USB	Kingston	C7052-322.AOOL F	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.8m	HDMI Cable	Furnished by test lab.



3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use) Margin Level = Measurement Value – Limit Value Calculation example:

38.22 + 3.45	= 41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	Π	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).

The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.

- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable will be terminated, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

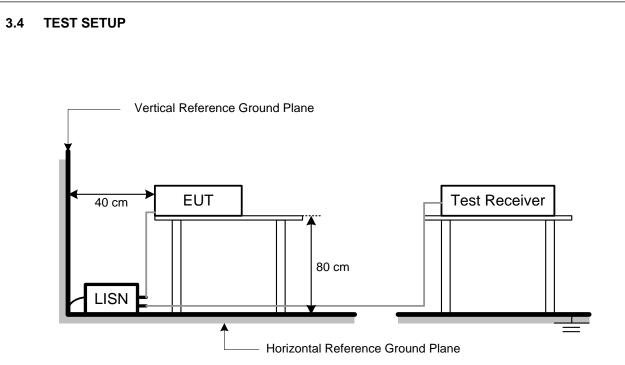
NOTE:

- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.





3.5 TEST RESULT

Please refer to the APPENDIX A.



4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$. The emission limit equal to -13dBm.

NOTE:

- (1) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- (2) The test result calculated as following:
 - Measurement Value = Reading Level + Correct Factor
 - Correct Factor = Antenna Factor + Cable Loss Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-50.43	+	-2.11	Ш	-52.54

Measurement Value		Limit Value		Margin Level
-52.54	-	-13	Ш	-39.54

4.2 TEST PROCEDURE

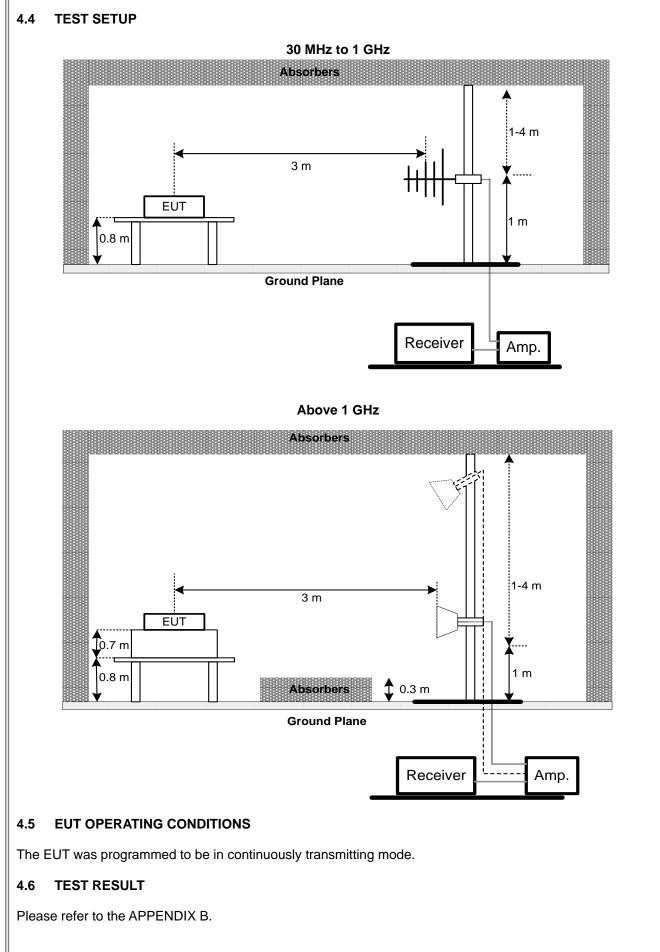
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.3 DEVIATION FROM TEST STANDARD

No deviation.







5 LIST OF MEASURING EQUIPMENTS

		AC Pow	er Line Conducted	d Emissions		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	2020/6/11	2021/6/10
2	Test Cable	EMCI	EMC400-BM-BM- 5000	170501	2020/6/8	2021/6/7
3	EMI Test Receiver	R&S	ESCI	100080	2020/6/15	2021/6/14
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Radiated Emission	ons		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325B	980217	2020/4/10	2021/4/9
2	Preamplifier	EMCI	EMC012645B	980267	2020/4/10	2021/4/9
3	Test Cable	EMCI	EMC-SM-SM-100 0	180809	2020/4/10	2021/4/9
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2020/4/10	2021/4/9
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2020/4/10	2021/4/9
6	MXE EMI Receiver	Agilent	N9038A	MY554200087	2020/6/10	2021/6/9
7	Signal Analyzer	Agilent	N9010A	MY56480554	2020/8/25	2021/8/24
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2020/6/12	2021/6/11
9	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2020/7/9	2021/7/8
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	VULB 9168-352	2020/7/24	2021/7/23
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2020/7/24	2021/7/23
12	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A
13	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2020/6/4	2021/6/3
14	Radio Communication Analyzer (LTE)	Anritsu	MT8820C	6201525878	2020/6/3	2021/6/2
15	Radio Communication Analyzer	Anritsu	MT8821C	6262044728	2020/12/15	2021/12/14

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



6 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2102T172A-2 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2102T172A-1 (APPENDIX-EUT PHOTOS).



APPENDIX A AC POWER LINE CONDUCTED EMISSIONS



								1	
		Normal						Tested Date	2021/3/23
est Fre	equency	-						Phase	Line
80.0	dBuV								
70									
60									
50	1 X								
40									
30	2 X	3 X	5 X		7 X	9 X		11 X 12	
20		4 ×	6 X		8 ×	10 X		×	
10									
0.0									
0.	.150		0.5		(MHz)		5		30.000
No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1 *	0.1685		9.68	48.39	65.03	-16.64	QP		
2	0.1685		9.68	28.76	55.03	-26.27	AVG		
3	0.3412		9.68	30.43	59.17	-28.74	QP		
4	0.3412		9.68	15.22	49.17	-33.95	AVG		
5	0.5752		9.68	28.70	56.00	-27.30	QP		
6	0.5752		9.68	18.27	46.00	-27.73	AVG		
7	2.0963		9.74	29.81	56.00	-26.19	QP		
8	2.0963		9.74	19.99	46.00	-26.01	AVG		
9	3.5498	17.43	9.78	27.21	56.00	-28.79	QP		
10	3.5498	9.88	9.78	19.66	46.00	-26.34	AVG		
11	11.5935	20.34	9.93	30.27	60.00	-29.73	QP		



st Mo	de	Normal						Tester	d Date	2021/3/23
	equency	-						Phase		Neutral
80.0								. 11000		
70										
60										
50	1 X									
40			3 X						11 X 12	
30	2 X		4 ×		5 X 6	7 X 8		9 10 ×	X	
20					×	×				
10 0.0										
	.150	().5		(MHz)		5			30.000
lo. M		Reading Level	Correct Factor	Measure- ment	Limit	Over				
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comn	nent	
1 *	0.1668	38.72	9.68	48.40	65.12	-16.72				
2	0.1668	17.60 24.68	9.68 9.68	27.28 34.36	55.12 56.00	-27.84	AVG QP			
4	0.5752	15.30	9.00	24.98	46.00	-21.04	AVG			
5	2.0805	13.50	9.74	24.90	56.00	-27.62	 			
6	2.0805	10.53	9.74	20.27	46.00	-25.73	AVG			
7	3.8288	15.11	9.79	24.90	56.00	-31.10	QP			
8	3.8288	8.95	9.79	18.74	46.00	-27.26	AVG			
9	7.6718	18.96	9.88	28.84	60.00	-31.16	QP			
0		14.57	9.88	24.45	50.00	-25.55	AVG			
	7.6718	14.07								
10 11	11.4720	25.95	9.93	35.88	60.00	-24.12	QP			



Test Mode I Test Frequency -		le	dle						Tested	Date	2021/3/23
									Phase		Line
80.0	dBuV										
70											
60											
50	1										
	×										
40		3 Х				7				11	
30	2 X			5 X		×	9 X			11 X 12 X	
20		4 ×		6 X		8 X	10 X				
10											
0.0											
	.150		0	1.5		(MHz)		5			30.000
lo. M	k. Fre	əq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
	Mł	Ηz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comm	ent	
1 *	0.16		37.78	9.68	47.46	65.06	-17.60	QP			
2	0.16		18.12	9.68	27.80	55.06	-27.26	AVG			
3	0.23		26.49	9.68	36.17	62.25	-26.08	QP			
4	0.23		9.67	9.68	19.35	52.25	-32.90	AVG			
5	0.57		18.65	9.68	28.33	56.00	-27.67	QP			
6	0.57	75	8.16	9.68	17.84	46.00	-28.16	AVG			
7	2.08	373	20.57	9.74	30.31	56.00	-25.69	QP			
8	2.08	373	10.94	9.74	20.68	46.00	-25.32	AVG			
9	3.64	20	17.45	9.79	27.24	56.00	-28.76	QP			
10	3.64	20	9.50	9.79	19.29	46.00	-26.71	AVG			
11	12.14	-03	20.32	9.93	30.25	60.00	-29.75	QP			

12.1403

12

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

9.93

25.07

50.00 -24.93 AVG

15.14



est Mo	ode	Idle						Teste	d Date	2021/3/23
	equency	-						Phase		Neutral
	, ,									
80.0) dBuV									
70										
60										
00			-							
50	1 X									
40			3 X						11 X	
30	2 X				5 X		7	9 X 10	12 X	
			4 X		6	:	7 X 8	X		
20					×		×			
10										
0.0										
	.150		0.5		(MHz)		5			30.000
		Reading	Correct	Measure-						
No. M			Factor	ment	Limit	Over				
1 *	MHz 0.1685	dBu∨ 38.68	dB 9.68	dBu∨ 48.36	dBu∨ 65.03	dB -16.67	Detector QP	Com	nent	
2	0.1685		9.68	28.19	55.03	-26.84	AVG			
3	0.5797		9.68	33.76	56.00	-22.24	QP			
4	0.5797		9.68	24.16	46.00	-21.84	AVG			
5	2.1008	18.72	9.74	28.46	56.00	-27.54	QP			
6	2.1008	10.50	9.74	20.24	46.00	-25.76	AVG			
	4.0313	15.45	9.80	25.25	56.00	-30.75	QP			
7				19.84	46.00	-26.16	AVG			
8	4.0313		9.80							
8	7.6155	18.77	9.88	28.65	60.00	-31.35	QP			
8		18.77 14.26				-31.35 -25.86 -24.45	QP AVG QP			

11.5260

12

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

9.93

29.75

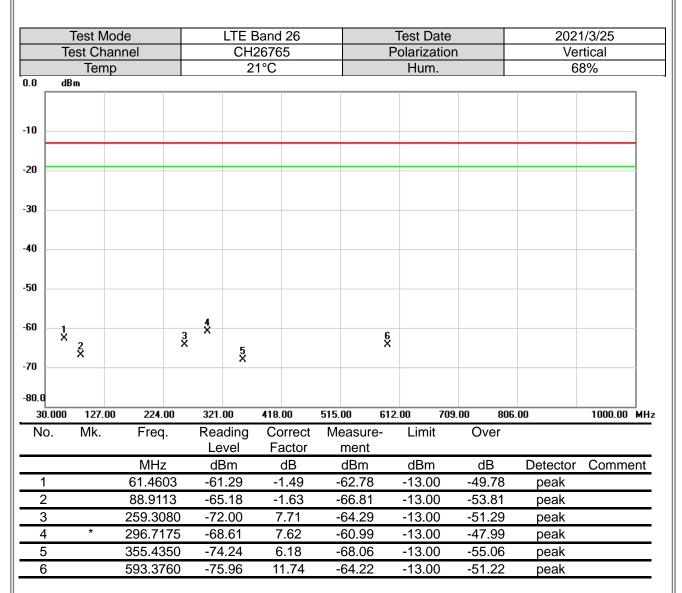
50.00 -20.25 AVG

19.82



APPENDIX B RADIATED SPURIOUS EMISSIONS





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



	Test Mode					LTE	Band	1 26			-	Test Dat	te		2	2021	/3/25	
	Tes	st Char	nnel			CH	2676	5			Ρ	olarizati	ion		F	loriz	ontal	
		Temp				2	1°C					Hum.				68	8%	
0.0	dBm	1																_
-10																		
-20																		-
-30																		
-40																		
-50														6				
-60	1 2 2	2			3		4 X				5 X			6 X				
-70					з Х						X							
-80.0																		
30.0	000	127.00	224.	00	321.	00	418.	00	515.	00	612.	.00 7	709.00) 806	5.00		1000.00	 IMHz
No.		Mk.	Freq		Rea	ding vel	Сс	orrect	Me	easure ment		Limit		Over				
			MHz		dE	3m		dB		dBm		dBm		dB	Detec	tor	Comm	ent
1			63.044	46	-64	.31	6	.13	-	58.18		-13.00		-45.18	peal	K		
2			84.22	30	-67	.07	4	.87	-	62.20		-13.00		-49.20	peal	K		
3			296.71	75	-65	5.66	C	.76	-	64.90		-13.00		-51.90	peal	ĸ		
4			398.63	22	-66	6.37	6	5.12	-	60.25		-13.00		-47.25	peal	ĸ		
5			593.40	83	-72	2.07	7	.45	-	64.62		-13.00		-51.62	peal	ĸ		
6		*	729.27	30	-66	6.73	1	1.36	-	55.37		-13.00		-42.37	peal	ĸ		



	est Moo st Char			Band 26 26765		Test Date Polarization			1/3/25 rtical	
	Temp			1°C		Hum.			8%	
50.0 dBi										7
50										
10										
30										
20				1						
0				1 X						
·										
10										
20										
30										
40.0										
700.000	730.00	760.00	790.00	820.00	850.00 88	80.00 910	D.00 940.	00	1000.00	-мн
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	814.9200	-20.87	34.30	13.43	50.00	-36.57	peak		



	est Mo			Band 26		Test Date			1/3/25	
Te	st Char			26765		Polarizatio	n		zontal	
	Temp		2	1°C		Hum.		68	8%	
60.0 dBr	n									٦
io										
0										
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:0				1 X						
0										
10										
20										
30										
40.0										
700.000	730.00	760.00	790.00	820.00			0.00 940.	.00	1000.00	мн
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	814.8700	-12.31	33.57	21.26	50.00	-28.74	peak		



	Test Mo Test Char			Band 26 26765		Test Date Polarization			1/3/25 rtical
	Temp			1°C		Hum.			8%
.0	dBm								
20									
80 -									
10	1 X								
io -									
:0 -									
°0									
- 0									
0									
00.00									
1000	0.000 2900.0	D 4800.00	6700.00	8600.00	10500.00 1	2400.00 143	300.00 162	00.00	20000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1630.167	-34.13	-7.14	-41.27	-13.00	-28.27	peak	



	Test Mo			Band 26		Test Date			1/3/25
	Test Char	nnel		26765		Polarizatio	n		zontal
	Temp		2	1°C		Hum.		68	8%
.0	dBm								
10 -									
20									
30 -									
40 -	1								
50 -	×								
60 -									
70 -									
30 -									
90 -									
100.0									
	D.000 2900.00		6700.00	8600.00				00.00	20000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1630.167	-36.44	-8.09	-44.53	-13.00	-31.53	peak	



APPENDIX C REFERENCE INFORMATION



LTE Band 26 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)				
					1	0	0	22.11				
					1	2	0	22.01				
					1	5	0	21.92				
				QPSK	3	0	0	22.11				
					3	1	0	22.01				
					3	2	0	21.92				
		26797	824.7		6	0	1	21.17				
		20191	024.7		1	0	1	21.29				
					1	2	1	21.25				
					1	5	1	20.99				
				16QAM	3	0	1	21.29				
					3	1	1	21.25				
					3	2	1	20.99				
					6	0	2	20.26				
					1	0	0	21.99				
					1	2	0	21.92				
				QPSK		1	5	0	21.83			
			836.5		3	0	0	21.99				
	26 1.4 26915				3	1	0	21.92				
					3	2	0	21.83				
26		26915			6	0	1	21.05				
20	1.4	20010	000.0		1	0	1	21.17				
					1	2	1	21.13				
					1	5	1	20.90				
				16QAM	16QAM	16QAM	16QAM	16QAM	3	0	1	21.17
					3	1	1	21.13				
					3	2	1	20.90				
					6	0	2	20.50				
					1	0	0	22.03				
					1	2	0	21.97				
					1	5	0	21.93				
				QPSK	3	0	0	22.03				
					3	1	0	21.97				
					3	2	0	21.93				
		27033	848.3		6	0	1	21.09				
	270		0.010		1	0	1	21.21				
					1	2	1	21.17				
					1	5	1	21.00				
				16QAM	3	0	1	21.21				
					3	1	1	21.17				
					3	2	1	21.00				
					6	0	2	20.60				



Band	BW	Channel	Frequency	Mode	UL RB	UL RB	MPR	Average power		
	(MHz)		(MHz)		Allocation	Offset		(dBm)		
					1	0	0	22.16		
					1	7	0	22.06		
					1	14	0	21.97		
				QPSK	8	0	1	21.27		
					8	4	1	21.10		
					8	7	1	21.15		
		26805	825.5		15	0	1	21.22		
			0_0.0		1	0	1	21.34		
					1	7	1	21.30		
					1	14	1	21.04		
				16QAM	8	0	2	20.17		
					8	4	2	20.20		
					8	7	2	20.00		
					15	0	2	20.31		
					1	0	0	22.04		
				QPSK	1	7	0	21.97		
					1	14	0	21.88		
					8	0	1	21.15		
					8	4	1	21.01		
					8	7	1	21.06		
26	3	26915	836.5		15	0	1	21.10		
20	5	20313	000.0		1	0	1	21.22		
					1	7	1	21.18		
							1	14	1	20.95
				16QAM	8	0	2	20.05		
					8	4	2	20.11		
					8	7	2	19.91		
					15	0	2	21.30		
					1	0	0	22.08		
					1	7	0	22.02		
					1	14	0	21.98		
				QPSK	8	0	1	21.19		
					8	4	1	21.06		
					8	7	1	21.16		
		27025	017 5		15	0	1	21.14		
		27025	847.5		1	0	1	21.26		
					1	7	1	21.22		
					1	14	1	21.05		
				16QAM	8	0	2	20.09		
					8	4	2	20.16		
					8	7	2	20.01		
					15	0	2	21.10		



Deck	BW		Frequency		UL RB	UL RB	MDD	Average power
Band	(MHz)	Channel	(MHz)	Mode	Allocation	Offset	MPR	(dBm)
					1	0	0	22.21
					1	12	0	22.11
					1	24	0	22.02
				QPSK	12	0	1	21.32
					12	6	1	21.15
					12	11	1	21.20
		26945	906 F		25	0	1	21.27
		26815	826.5		1	0	1	21.39
					1	12	1	21.35
					1	24	1	21.09
				16QAM	12	0	2	20.22
					12	6	2	20.25
					12	11	2	20.05
					25	0	2	20.36
					1	0	0	22.09
					1	12	0	22.02
					1	24	0	21.93
				QPSK	12	0	1	21.20
					12	6	1	21.06
					12	11	1	21.11
26	5	26915	836.5		25	0	1	21.15
20	0	20010	000.0		1	0	1	21.27
					1	12	1	21.23
					1	24	1	21.00
				16QAM	12	0	2	20.10
					12	6	2	20.16
					12	11	2	19.96
					25	0	2	20.24
					1	0	0	22.13
					1	12	0	22.07
					1	24	0	22.03
				QPSK	12	0	1	21.24
					12	6	1	21.11
					12	11	1	21.21
		27015	846.5		25	0	1	21.19
					1	0	1	21.31
					1	12	1	21.27
					1	24	1	21.10
				16QAM	12	0	2	20.14
					12	6	2	20.21
					12	11	2	20.06
					25	0	2	20.28



Band	(MHz)	Channel	Frequency	NA I -	UL RB	UL RB		Average power	
	. ,		(MHz)	Mode	Allocation	Offset	MPR	(dBm)	
					1	0	0	22.26	
					1	24	0	22.16	
					1	49	0	22.07	
				QPSK	25	0	1	21.37	
					25	12	1	21.20	
					25	24	1	21.25	
		26840	829.0		50	0	1	21.32	
		20040	029.0		1	0	1	21.44	
					1	24	1	21.40	
					1	49	1	21.14	
				16QAM	25	0	2	20.27	
					25	12	2	20.30	
					25	24	2	20.10	
					50	0	2	20.41	
					1	0	0	22.14	
				QPSK	1	24	0	22.07	
					1	49	0	21.98	
					25	0	1	21.25	
					25	12	1	21.11	
					25	24	1	21.16	
26	10	26915	836.5		50	0	1	21.20	
20	10	20915	030.5		1	0	1	21.32	
						1	24	1	21.28
							1	49	1
				16QAM	25	0	2	20.15	
					25	12	2	20.21	
					25	24	2	20.01	
					50	0	2	20.29	
					1	0	0	22.18	
					1	24	0	22.12	
					1	49	0	22.08	
				QPSK	25	0	1	21.29	
					25	12	1	21.16	
					25	24	1	21.26	
		20000	044.0		50	0	1	21.24	
	26990	26990	844.0		1	0	1	21.36	
				1	24	1	21.32		
					1	49	1	21.15	
				16QAM	25	0	2	20.19	
					25	12	2	20.26	
					25	24	2	20.11	
					50	0	2	20.33	



Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
					1	0	0	22.31
					1	37	0	22.21
					1	74	0	22.12
				QPSK	36	0	1	21.42
					36	18	1	21.25
					36	37	1	21.30
		00005	004 5		75	0	1	21.37
		26865	831.5		1	0	1	21.49
					1	37	1	21.45
					1	74	1	21.19
				16QAM	36	0	2	20.32
					36	18	2	20.35
					36	37	2	20.15
					75	0	2	20.46
			836.5		1	0	0	22.19
				QPSK	1	37	0	22.12
					1	74	0	22.03
					36	0	1	21.30
					36	18	1	21.16
					36	37	1	21.21
26	15	26915			75	0	1	21.25
20	15	20915	030.5		1	0	1	21.37
					1	37	1	21.33
					1	74	1	21.10
				16QAM	36	0	2	20.20
					36	18	2	20.26
					36	37	2	20.06
					75	0	2	20.34
					1	0	0	22.23
					1	37	0	22.17
					1	74	0	22.13
				QPSK	36	0	1	21.34
					36	18	1	21.21
					36	37	1	21.31
		26965	841.5		75	0	1	21.29
		20900	041.5		1	0	1	21.41
					1	37	1	21.37
					1	74	1	21.20
				16QAM	36	0	2	20.24
					36	18	2	20.31
					36	37	2	20.16
					75	0	2	20.38

End of Test Report