



Report No.: FG0N0620D

FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00128AUC Equipment : Notebook Computer

Brand Name : Lenovo Model Name : TP00128A

Applicant : LC Future Center Limited Taiwan Branch

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

Taipei City 104, Taiwan

Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.

No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics &

Technology Development Area, Anhui, CHINA

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

Equipment: Foxconn T99W175 tested inside of Lenovo Notebook Computer.

The product was received on Nov. 06, 2020 and testing was started from Nov. 20, 2020 and completed on Nov. 23, 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 partial 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.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan

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E-mail : Alex@sporton.com.tw

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: 02

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History of this test report

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Report No.	Version	Description	Issued Date
FG0N0620D	01	Initial issue of report	Jan. 08, 2021
FG0N0620D	02	Add power table	Feb. 23, 2021

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power and Effective Isotropic Radiated Power	Reporting only	-
-	-	Peak-to-Average Ratio	-	See Note
-	§27.50 (a)(3)	EIRP Power Density	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	-	See Note
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 6.39 dB at 6924.000 MHz

Note: The module (Model: T99W175) makes no difference after verifying output power, this report reuses test data from the module report.

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: Yimin Ho

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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	TP00128A				
FCC ID	2AJN7-TP00128AUC				
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/GNSS/NFC/UWB				
EUT Stage	Production Unit				

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Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Foxconn T99W175 tested inside of Lenovo Notebook Computer.

WWAN Antenna Information								
Main Antonno	Manufacturer	Amphenol	Peak gain (dBi)	1.62				
Main Antenna	Part number	TKC114-16-000-C	Туре	PIFA				
MIMO 2 Antonno	Manufacturer	Amphenol	Peak gain (dBi)	1.52				
MIMO 2 Antenna	Part number	TKC113-16-000-C	Туре	PIFA				

Remark:

- The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. All test items were performed with Main Antenna.

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						
Maximum Output Power to Antenna	22.31 dBm						
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM						

1.3 Modification of EUT

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

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory						
Test Site Location	No.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan						
Test Site No.	Sporton Site No.						
Test Site No.	TH05-HY						
Test Engineer	Jacky Wang						
Temperature	23~25℃						
Relative Humidity	52~55%						

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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					
Took Site No	Sporton Site No.					
Test Site No.	03CH12-HY					
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu					
Temperature	22.3~26.4°ℂ					
Relative Humidity	58~66%					

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

FCC Designation No. TW1190 and 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 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 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

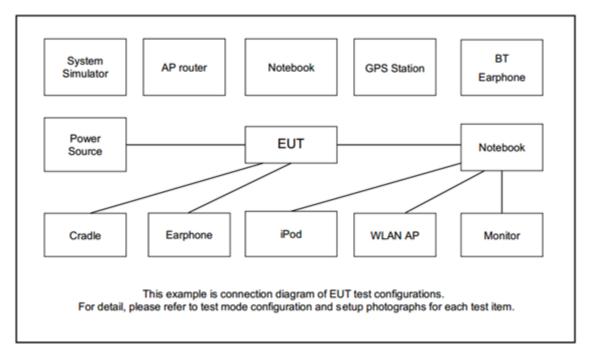
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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

Total Manage	D1	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
Max. Output Power	30	-	•	v	v	-	-	v	v	v		v	v	v	v	v	v
E.I.R.P	30	-	-	v	v	-	-	v	v	v		v	v	v	v	v	v
Radiated Spurious Emission	30	-		v		-	-				v	v			v	v	v
Remark	 The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 																

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

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2.4 Frequency List of Low/Middle/High Channels

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

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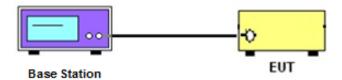
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power Measurement and EIRP Measurement

3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

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According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, 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

3.2.2 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.

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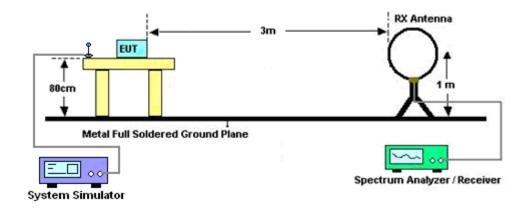
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

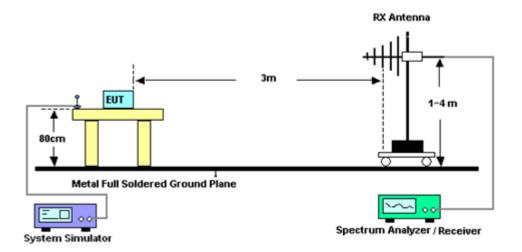
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



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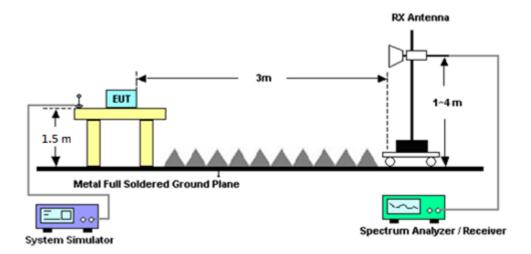
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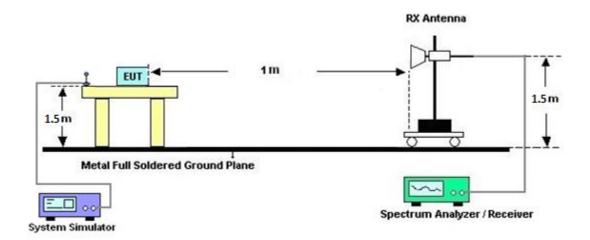
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For radiated emissions from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

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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4.2 Radiated Spurious Emission Measurement

4.2.1 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.

4.2.2 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.
- 4. 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.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the 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
```

9. The RF fundamental frequency should be excluded against the limit line in the operating 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)
- = -40 dBm.

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5 List of Measuring Equipment

					Calibration			
Instrument	Brand Name	Model No.	Serial No.	Characteristics	Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Nov. 20, 2020~ Nov. 23, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Nov. 20, 2020~ Nov. 23, 2020	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz~18GHz	May 20, 2020	Nov. 20, 2020~ Nov. 23, 2020	May 19, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-124 1	1GHz ~ 18GHz	Jul. 15. 2020	Nov. 20, 2020~ Nov. 23, 2020	Jul. 14. 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz~40GHz	Dec. 10, 2019	Nov. 20, 2020~ Nov. 23, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 980	18GHz ~ 40GHz	Jan. 10, 2020	Nov. 20, 2020~ Nov. 23, 2020	Jan. 09, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Nov. 20, 2020~ Nov. 23, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY572801 20	1GHz~26.5GHz	Jul. 20, 2020	Nov. 20, 2020~ Nov. 23, 2020	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180 0054002	1GHz~18GHz	Feb. 07, 2020	Nov. 20, 2020~ Nov. 23, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Nov. 20, 2020~ Nov. 23, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY542004 85	10Hz~44GHz	Feb. 10, 2020	Nov. 20, 2020~ Nov. 23, 2020	Feb. 09, 2021	Radiation (03CH12-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Nov. 20, 2020~ Nov. 23, 2020	Feb. 14, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Nov. 20, 2020~ Nov. 23, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 12, 2019	Nov. 20, 2020~ Nov. 23, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 25, 2020	Nov. 20, 2020~ Nov. 23, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 25, 2020	Nov. 20, 2020~ Nov. 23, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 02, 2020	Nov. 20, 2020~ Nov. 23, 2020	Oct. 01, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 20, 2020~ Nov. 23, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Nov. 20, 2020~ Nov. 23, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 20, 2020~ Nov. 23, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Nov. 20, 2020~ Nov. 23, 2020	N/A	Radiation (03CH12-HY)
Base Station	Anritsu	MT8820C	620138176 6	-	Jun. 29, 2020	Nov. 21, 2020	Jun. 28, 2021	Conducted (TH05-HY)
Base Station	Keysight	E5515C	MY502672 36		Mar.18, 2020	Nov. 21, 2020	Mar. 17, 2021	Conducted (TH05-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.07
Confidence of 95% (U = 2Uc(y))	

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

Measuring Uncertainty for a Level of	2.24
Confidence of 95% (U = 2Uc(y))	3.21

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

Measuring Uncertainty for a Level of	3.80
Confidence of 95% (U = 2Uc(y))	3.00

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

LTE Band 30 Maximum Average Power [dBm] (GT - LC = 0.84 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)	
10	1	0			22.31				
10	1	25			22.23				
10	1	49			22.22				
10	25	0	QPSK		21.34		23.15	0.2065	
10	25	12			21.28				
10	25	25			21.20				
10	50	0			21.30				
10	1	0			21.57				
10	1	25			21.56				
10	1	49			21.53				
10	25	0	16-QAM	-	20.27	-	22.41	0.1742	
10	25	12			20.31				
10	25	25			20.31				
10	50	0			20.31				
10	1	0			20.15				
10	1	25			19.99				
10	1	49			19.88				
10	25	0	64-QAM		19.86		20.99	0.1256	
10	25	12			19.82				
10	25	25			19.79				
10	50	0			19.63				
Limit	EIRP	< 250mW/	5MHz		Result		Pa	ISS	

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LTE Band 30 Maximum Average Power [dBm] (GT - LC = 0.84 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)	
5	1	0		22.09	22.14	22.19		0.2046	
5	1	12		22.21	22.20	22.23			
5	1	24		22.27	22.22	22.20			
5	12	0	QPSK	21.26	21.28	21.30	23.11		
5	12	7		21.38	21.34	21.33			
5	12	13		21.38	21.34	21.27			
5	25	0		21.34	21.30	21.29			
5	1	0		21.43	21.45	21.49	22.42	0.1746	
5	1	12	16-QAM	21.51	21.55	21.50			
5	1	24		21.58	21.51	21.55			
5	12	0		20.30	20.31	20.34			
5	12	7		20.40	20.36	20.37			
5	12	13		20.40	20.36	20.29			
5	25	0		20.33	20.34	20.33			
5	1	0		20.41	20.43	20.49			
5	1	12		20.44	20.52	20.44			
5	1	24		20.56	20.51	20.41			
5	12	0	64-QAM	19.36	19.40	19.37	21.40	0.1380	
5	12	7		19.46	19.42	19.41			
5	12	13		19.40	19.42	19.35			
5	25	0		19.35	19.34	19.34			
Limit	EIRP	< 250mW/	5MHz		Result		Pa	ss	

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Appendix B. 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)			
	4611	-55.52	-40	-15.52	-49.02	-66.74	1.45	4611	Н			
	6916	-49.61	-40	-9.61	-49.84	-59.90	1.73	6916	Н			
	9221	-58.46	-40	-18.46	-61.31	-68.08	2.16	9221	Н			
									Н			
									Н			
Lowest									Н			
Lowesi	4611	-50.23	-40	-10.23	-42.95	-61.45	1.45	12.68	V			
	6916	-46.80	-40	-6.80	-46.59	-57.09	1.73	12.02	V			
	9221	-57.27	-40	-17.27	-61.11	-66.89	2.16	11.78	V			
									V			
									V			
									V			
	4616	-56.31	-40	-16.31	-49.83	-67.53	1.46	12.68	Н			
	6924	-46.39	-40	-6.39	-46.68	-56.67	1.73	12.01	Н			
	9231	-58.45	-40	-18.45	-61.28	-68.06	2.16	11.77	Н			
									Н			
									Н			
									Н			
Middle									Н			
ivildale	4616	-54.62	-40	-14.62	-47.36	-65.84	1.46	12.68	V			
	6924	-47.34	-40	-7.34	-47.18	-57.62	1.73	12.01	V			
	9231	-57.20	-40	-17.20	-61.04	-66.81	2.16	11.77	V			
									V			
									V			
									V			
									V			

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				1	1			1	
ı	4621	-55.53	-40	-15.53	-49.08	-66.75	1.46	12.68	Н
	6931	-49.96	-40	-9.96	-50.3	-60.23	1.73	12.00	Н
	9241	-58.18	-40	-18.18	-60.98	-67.78	2.16	11.76	Н
									Н
									Н
									Н
Lliabaat									Н
Highest	4621	-52.69	-40	-12.69	-45.46	-63.91	1.46	12.68	٧
	6931	-51.85	-40	-11.85	-51.73	-62.12	1.73	12.00	٧
	9241	-57.04	-40	-17.04	-60.87	-66.64	2.16	11.76	V
									V
									V
									V
									V

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

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