



Report No.: FG2O1403C

FCC RADIO TEST REPORT

FCC ID : PU5-LN300WG4L Equipment : Notebook Computer

Brand Name : Lenovo

Model Name : Lenovo 300w Yoga Gen 4

Applicant : Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih

Dist, New Taipei City 221, Taiwan

Manufacturer : Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong, P.R. China

Standard : FCC 47 CFR Part 2, 90(R)

Equipment: Fibocom FM101-GL tested inside of Lenovo Notebook Computer.

The product was received on Dec. 09, 2022 and testing was performed from Dec. 22, 2022 to Jan. 07, 2023. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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E-mail: Alex@sporton.com.tw Report Version: 02

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History of this test report

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Report No.	Version	Description	Issue Date
FG2O1403C	01	Initial issue of report	Jan. 18, 2023
FG2O1403C	02	Revise Type of Modulation	Jan. 18, 2023

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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	Reporting only	-
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-
-	-	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §90.210 (n)	Emission Mask	-	See Note
-	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	-	See Note
-	\$2.1055 Frequency Stability \$90.539 (e) Temperature & Voltage		-	See Note
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	1.94 dB under the limit at 1584.000 MHz

Note:

- 1. For host device, Effective Radiated Power and Radiated Spurious Emission are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: FM101-GL)

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
 - It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- 2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen Report Producer: Clio Lo

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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 300w Yoga Gen 4
FCC ID	PU5-LN300WG4L
Sample 1	EUT with AWAN Antenna
Sample 2	EUT with High-Tek Antenna
	WCDMA/HSPA/LTE/GNSS
	WLAN 11a/b/g/n HT20/HT40
EUT supports Radios application	WLAN 11ac VHT20/VT40/VHT80/VHT160
	WLAN 11ax HE20/HE40/HE80/HE160
	Bluetooth BR/EDR/LE
EUT Stage	Production Unit

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Remark:

- 1. The above EUTs information was declared by manufacturer.
- 2. Equipment: Fibocom FM101-GL tested inside of Lenovo Notebook Computer.

WWAN Antenna Information							
	Manufacturer	AWAN	Peak gain (dBi)	LTE Band 14 :-3.39			
Main Antenna	Part number	025.90270.0011	Туре	PIFA Antenna			
Main Antenna	Manufacturer	High-Tek	Peak gain (dBi)	LTE Band 14 :-3.71			
	Part number	025.90270.0001	Туре	PIFA Antenna			

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard						
Tx Frequency	LTE Band 14 :790.5 MHz ~ 795.5 MHz					
Rx Frequency	LTE Band 14 :760.5 MHz ~ 765.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	23.87 dBm					
Type of Modulation	QPSK / 16QAM					

1.3 Modification of EUT

No modifications made to the EUT during the testing.

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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 333					
Test Site No.	Sporton Site No.					
iest Site No.	TH03-HY (TAF Code: 1190)					
Test Engineer	Eric Chang					
Temperature (°C)	22.5~23.3					
Relative Humidity (%)	52~55					
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.					

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Test Site	Sporton International Inc. Wensan Laboratory						
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010						
Tool Cita No	Sporton Site No.						
Test Site No.	03CH15-HY						
Test Engineer	Eric Xiao, Quentin Liu and Bigshow Wang						
Temperature (°C)	21~26						
Relative Humidity (%)	45~60						

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

FCC Designation No.: TW1190 and TW3786

1.5 Applied Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- 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

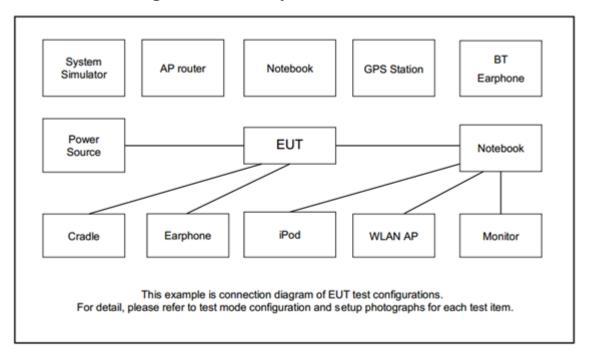
2.1 Test Mode

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. For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

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Conducted	Dand	Bandwidth (MHz)			Modulation		RB#		!	Test Channel					
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	Н
Max. Output Power	14	-	-	v	v	-	-	v	v	v			v	v	v
ER.P	14	-	-	v	v	-	-	v	v	Max. Power					
Radiated Spurious Emission	14	-	-	v	v	-	-	v		v			v	v	v
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandw idth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offsetand modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performed with Sample 2.														

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

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2.4 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest				
10	Channel	-	23330	-				
10	Frequency	-	793	-				
F	Channel	23305	23330	23355				
5	Frequency	790.5	793	795.5				

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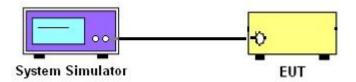
3 Conducted Test Items

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 ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP 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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The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

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

3.2.2 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 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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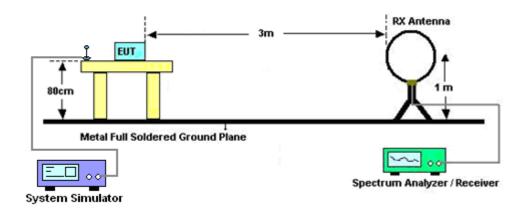
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

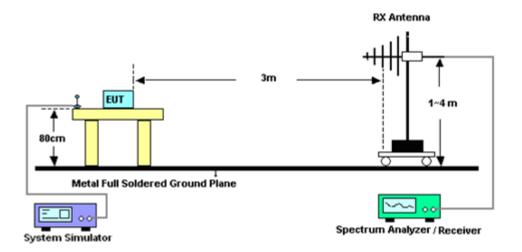
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



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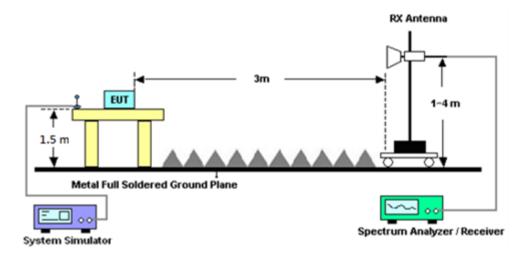
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For radiated test above 1GHz



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 adequate comparison measurement 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

4.2.1 Description of Radiated Spurious Emission

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 43 + 10 log (P) dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the

band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP)

for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the

purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative

of the type that will be used with the equipment in normal operation.

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

frequency band.

11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Dec. 22, 2022~ Jan. 07, 2023	Sep. 19, 2023	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Dec. 22, 2022~ Jan. 07, 2023	Feb. 05, 2023	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Dec. 22, 2022~ Jan. 07, 2023	Apr. 23, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2021	Dec. 22, 2022~ Dec. 25, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2022	Dec. 26, 2022~ Jan. 07, 2023	Dec. 25, 2023	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 25, 2022	Dec. 22, 2022~ Jan. 07, 2023	Jul. 24, 2023	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Dec. 22, 2022~ Jan. 07, 2023	Jun. 22, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Dec. 22, 2022~ Jan. 07, 2023	May 13, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Nov. 24, 2022	Dec. 22, 2022~ Jan. 07, 2023	Nov. 23, 2023	Radiation (03CH15-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900269	1GHz~18GHz	Dec. 27, 2021	Dec. 22, 2022~ Dec. 25, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900269	1GHz~18GHz	Dec. 26, 2022	Dec. 26, 2022~ Jan. 07, 2023	Dec. 25, 2023	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060802	1GHz-18GHz	Mar. 08, 2022	Dec. 22, 2022~ Jan. 07, 2023	Mar. 07, 2023	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Dec. 22, 2022~ Jan. 07, 2023	Oct. 17, 2023	Radiation (03CH15-HY
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 11, 2022	Dec. 22, 2022~ Jan. 07, 2023	May 10, 2023	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 22, 2022~ Jan. 07, 2023	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 22, 2022~ Jan. 07, 2023	N/A	Radiation (03CH15-HY)
Softw are	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Dec. 22, 2022~ Jan. 07, 2023	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY 582185/4,M Y 9838/4PE,51 9228/2	30MHz~18G	Jun. 21, 2022	Dec. 22, 2022~ Jan. 07, 2023	Jun. 20, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8040 12/2	30MHz-40GHz	Jan. 04, 2022	Dec. 22, 2022~ Jan. 02, 2023	Jan. 03, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8040 12/2	30MHz-40GHz	Jan. 03, 2023	Jan. 03, 2023~ Jan. 07, 2023	Jan. 02, 2024	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY 9837/4PE	9kHz~30MHz	Mar. 10, 2022	Dec. 22, 2022~ Jan. 07, 2023	Mar. 09, 2023	Radiation (03CH15-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6201664755	LTE FDD/TDD LTE-2CC DLCA/ULCA	Aug. 01, 2022	Jan. 05, 2023	Jul. 31, 2023	Conducted (TH03-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.27 dB
Confidence of 95% (U = 2Uc(y))	3.27 dB

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

Measuring Uncertainty for a Level of	3.72 dB
Confidence of 95% (U = 2Uc(y))	3.72 dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

	LTE Band 14 Maximum Average Power [dBm] (GT - LC = -3.39 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
10	1	0			23.87						
10	1	25			23.70						
10	1	49			23.69						
10	25	0	QPSK		22.81		18.33	0.0681			
10	25	12			22.80						
10	25	25			22.76						
10	50	0			22.74						
10	1	0		-	23.11	-					
10	1	25			23.27						
10	1	49			23.12						
10	25	0	16-QAM		21.79		17.73	0.0593			
10	25	12			21.79						
10	25	25			21.68						
10	50	0			21.77						
Limit		ERP < 3W			Result		Pa	ISS			

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	LTE Band 14 Maximum Average Power [dBm] (GT - LC = -3.39 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
5	1	0		22.78	23.80	23.75					
5	1	12		23.58	23.68	23.58					
5	1	24		23.53	23.59	23.51					
5	12	0	QPSK	22.75	22.78	22.67	18.26	0.0670			
5	12	7	-	22.66	22.72	22.64					
5	12	13		22.72	22.75	22.71					
5	25	0		22.66	22.72	22.57					
5	1	0		22.73	22.80	22.78		0.0532			
5	1	12		22.66	22.60	22.62					
5	1	24		22.55	22.58	22.59					
5	12	0	16-QAM	21.65	21.69	21.59	17.26				
5	12	7		21.65	21.73	21.65					
5	12	13		21.52	21.58	21.45					
5	25	0		21.68	21.74	21.65					
Limit		ERP < 3W			Result		Pa	ISS			

Appendix B. Test Results of Radiated Test

LTE Band 14

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LTE Band 14 / 5MHz / QPSK											
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1576	-46.65	-42.15	-4.50	-21.72	-51.46	1.79	8.76	Н		
	2368	-35.35	-13	-22.35	-14.12	-40.98	2.20	9.98	Н		
	3152	-55.41	-13	-42.41	-37.01	-62.12	2.55	11.41	Н		
									Н		
									Н		
Lowest									Н		
Lowest	1576	-45.25	-42.15	-3.10	-20.59	-50.06	1.79	8.76	V		
	2368	-33.97	-13	-20.97	-13.45	-39.60	2.20	9.98	V		
	3152	-56.11	-13	-43.11	-38.21	-62.82	2.55	11.41	V		
									V		
									V		
									V		
	1584	-44.09	-42.15	-1.94	-19.09	-48.95	1.80	8.80	Н		
	2376	-43.98	-13	-30.98	-22.76	-49.69	2.20	10.06	Н		
	3152	-56.16	-13	-43.16	-37.76	-62.87	2.55	11.41	Н		
									Н		
									Н		
Middle									Н		
Middle	1584	-45.31	-42.15	-3.16	-20.63	-50.17	1.80	8.80	V		
	2376	-38.18	-13	-25.18	-17.67	-43.89	2.20	10.06	V		
	3152	-55.96	-13	-42.96	-38.06	-62.67	2.55	11.41	V		
									V		
									V		
									V		

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	1576	-44.49	-42.15	-2.34	-19.56	-49.30	1.79	8.76	Н
	2368	-37.54	-13	-24.54	-16.31	-43.17	2.20	9.98	Н
	3152	-55.79	-13	-42.79	-37.39	-62.50	2.55	11.41	Н
									Н
									Н
LP-L									Н
Highest	1576	-44.76	-42.15	-2.61	-20.08	-49.57	1.79	8.76	V
	2368	-36.33	-13	-23.33	-15.81	-41.96	2.20	9.98	V
	3152	-55.25	-13	-42.25	-37.35	-61.96	2.55	11.41	V
									V
									V
									V

Report No.: FG2O1403C

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

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	LTE Band 14 / 10MHz / QPSK											
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)			
	1584	-47.34	-42.15	-5.19	-21.77	-52.20	1.80	8.80	Н			
	2376	-47.02	-13	-34.02	-25.73	-52.73	2.20	10.06	Н			
	3152	-55.22	-13	-42.22	-37.73	-61.93	2.55	11.41	Н			
									Н			
									Н			
N 4: -I -II -									Н			
Middle	1584	-46.45	-42.15	-4.30	-21.77	-51.31	1.80	8.80	V			
	2376	-46.24	-13	-33.24	-25.73	-51.95	2.20	10.06	V			
	3152	-55.63	-13	-42.63	-37.73	-62.34	2.55	11.41	V			
									V			
									V			
									V			

Report No.: FG2O1403C

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

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