



FCC RADIO TEST REPORT

FCC ID : PU5-TP00107BUC
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00107BUC
Applicant : Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih
Dist, New Taipei City 221, Taiwan
Manufacturer : Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih
Dist, New Taipei City 221, Taiwan
Standard : FCC 47 CFR Part 2, 90(R)

Equipment: Fibocom L860-GL tested inside of Lenovo Notebook Computer.

The product was received on Dec. 28, 2019 and testing was started from Jan. 26, 2020 and completed on Feb. 19, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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.

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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History of this test report

Report No.	Version	Description	Issued Date
FG9D2810D	01	Initial issue of report	Mar, 03, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§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 §90.539 (e)	Frequency Stability Temperature & Voltage	-	See note
-	§90.542 (a)(7)	Effective Radiated Power	-	See note
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 1.08 dB at 1576.000 MHz

Note: The module (Model: L860-GL) 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: Wui Chang

Report Producer: Ching Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00107BUC
FCC ID	PU5-TP00107BUC
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL tested inside of Lenovo Notebook Computer.

Antenna Information				
WWAN				3G<E (dBi)
Antenna	Manufacturer	WNC	Peak gain	2.54
	Part number	025.901FP.0001	Type	PIFA

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 14 : 790.5 MHz ~ 795.5 MHz
Rx Frequency	LTE Band 14 : 760.5 MHz ~ 765.5 MHz
Bandwidth	LTE Band 14 : 5 M/10 M
Maximum Output Power to Antenna	LTE Band 14 : 23.01 dBm
Type of Modulation	QPSK / 16QAM / 64QAM

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.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan	
Test Site No.	Sporton Site No.	
	TH05-HY	03CH07-HY
Test Engineer	Jacky Wang	Jesse Wang, Stan Hsieh, Ken Wu and Nick Yu
Temperature	23~25°C	20~23°C
Relative Humidity	52~55%	52~56%

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

FCC Designation No.: TW1190

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
- ♦ 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:

All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

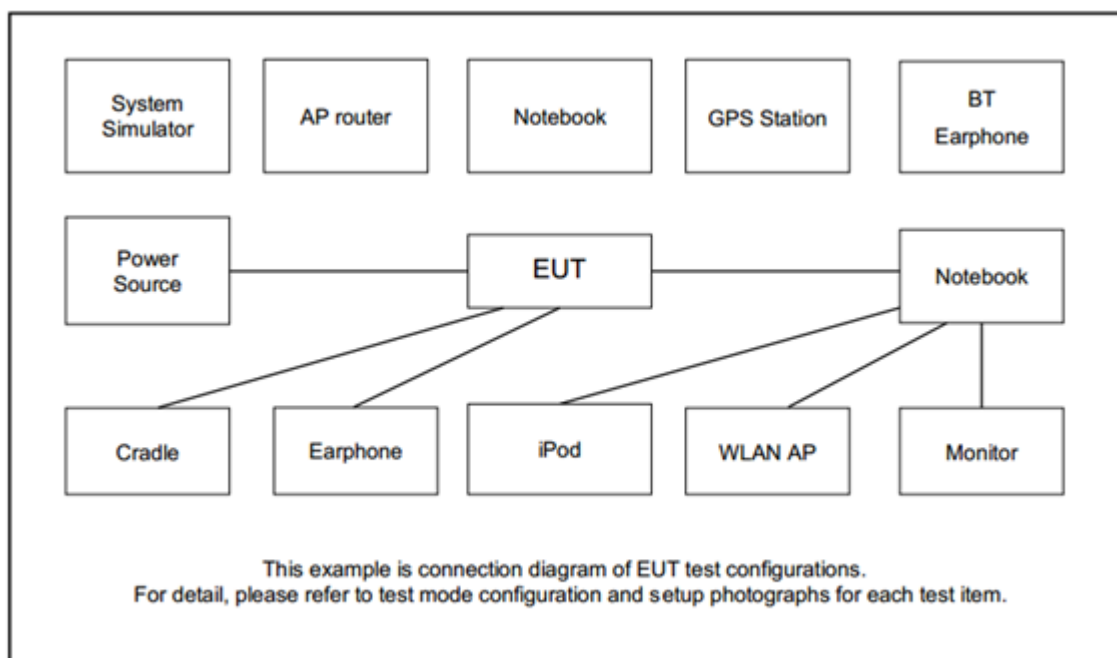
2.1 Test Mode

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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	14	-	-	V	V	-	-	V	V	V	V	V	V	V	V	V
E.R.P	14	-	-	V	V	-	-	V	V	V	V			V	V	V
Radiated Spurious Emission	14	Worst Case											V	V	V	
Remark	1. The mark "V " means that this configuration is chosen for testing 2. The mark "- " means that this bandwidth 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/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performed with Adapter 1.															

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

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	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

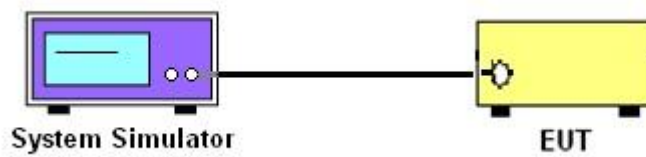
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power Measurement and ERP Measurement

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.

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.

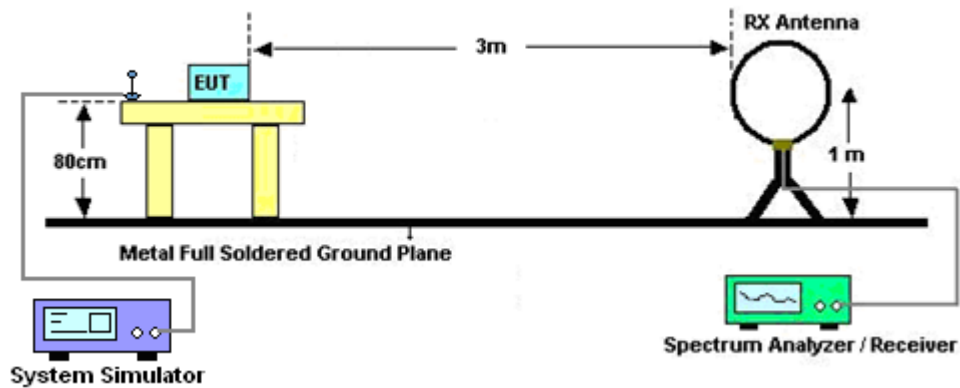
4 Radiated Test Items

4.1 Measuring Instruments

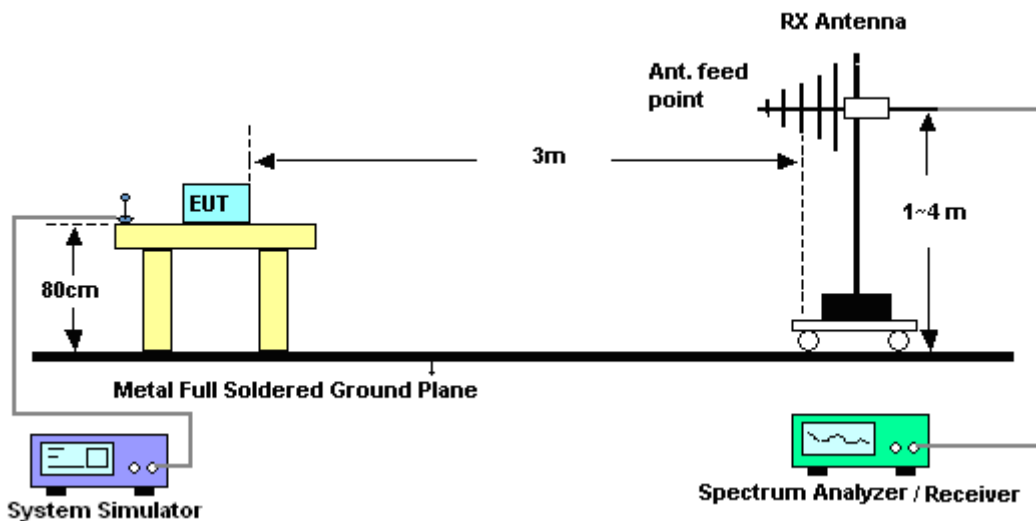
See list of measuring instruments of this test report.

4.1.1 Test Setup

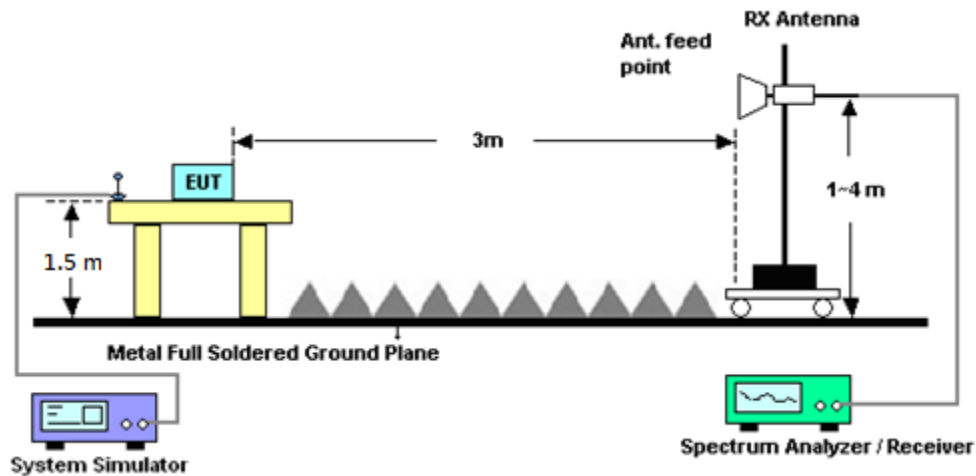
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



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 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.

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201107509	-	Jul. 03, 2019	Jan. 26, 2020	Jul. 02, 2020	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D0 1N-06	35419 & 03	30MHz~1GHz	Apr. 30, 2019	Feb. 11, 2020~Feb. 19, 2020	Apr. 29, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Feb. 11, 2020~Feb. 19, 2020	Oct. 11, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Feb. 11, 2020~Feb. 19, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
Horn Antenna	ESCO	3117	00066584	1GHz ~18GHz	Sep. 25, 2019	Feb. 11, 2020~Feb. 19, 2020	Sep. 24, 2020	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA91705 76	18GHz~40GHz	May 14, 2019	Feb. 11, 2020~Feb. 19, 2020	May 13, 2020	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA91702 51	18GHz~40GHz	Dec. 06, 2019	Feb. 11, 2020~Feb. 19, 2020	Dec. 06, 2020	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY5235027 6	3Hz~44GHz	Apr. 02, 2019	Feb. 11, 2020~Feb. 19, 2020	Apr. 01, 2020	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY5420048 6	10Hz~44GHz	Oct. 28, 2019	Feb. 11, 2020~Feb. 19, 2020	Oct. 27, 2020	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz~18GHz	Apr. 24, 2019	Feb. 11, 2020~Feb. 19, 2020	Apr. 23, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 20, 2019	Feb. 11, 2020~Feb. 19, 2020	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Feb. 11, 2020~Feb. 19, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Feb. 11, 2020~Feb. 19, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
Filter	Microwave	H1G013G1	SN477215	1GHz High Pass Filter	Nov. 01, 2019	Feb. 11, 2020~Feb. 19, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3GHz High Pass Filter	Nov. 01, 2019	Feb. 11, 2020~Feb. 19, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Filter	Wainwright	WHNX7.0-2 6.5G-6SS	SN7	7GHz High Pass Filter	Aug. 22, 2019	Feb. 11, 2020~Feb. 19, 2020	Aug. 21, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	Feb. 11, 2020~Feb. 19, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 26, 2019	Feb. 11, 2020~Feb. 19, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 26, 2019	Feb. 11, 2020~Feb. 19, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Feb. 11, 2020~Feb. 19, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Feb. 11, 2020~Feb. 19, 2020	N/A	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Feb. 11, 2020~Feb. 19, 2020	Aug. 26, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	8050400465 6H	N/A	N/A	Feb. 11, 2020~Feb. 19, 2020	N/A	Radiation (03CH07-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.23
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.63
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.70
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 14 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
10	1	0	QPSK	-	23.01	-			
10	1	25			22.90				
10	1	49			22.99				
10	25	0			22.11				
10	25	12			22.01				
10	25	25			22.04				
10	50	0			21.93				
10	1	0	16-QAM		22.37		-		
10	1	25			22.15				
10	1	49			22.35				
10	25	0			21.13				
10	25	12			21.00				
10	25	25			21.11				
10	50	0	21.02		64-QAM			21.19	
10	1	0	21.09					21.35	
10	1	49	21.12					20.12	
10	25	0	20.00					20.07	
10	25	12	20.02					QPSK	22.96
10	25	25	16-QAM						22.89
10	50	0			22.92				22.99
5	1	0			22.01				22.07
5	1	12		21.93	21.91				
5	1	24		21.96	22.02				
5	12	0		21.88	21.92				
5	12	7		22.36	22.27				
5	12	13	22.12	22.11					
5	25	0	22.35	22.28					
5	50	0	21.09	21.09					
5	1	0	21.00	20.93					
5	1	12	21.11	21.02					
5	1	24	20.94	20.95					
5	12	0	21.19	21.11					
5	12	7	20.99	21.04					
5	12	13	21.26	21.35					
5	25	0	20.04	20.06					
5	25	12	19.90	19.96					
5	25	25	20.04	20.04					
5	50	0	19.99	19.98					



Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 14 / 5MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.96	0.1977	21.01	0.1262
Middle		1	0	22.98	0.1986	21.03	0.1268
Highest		1	0	22.99	0.1991	21.04	0.1271
Lowest	16QAM	1	0	22.36	0.1722	20.41	0.1099
Middle		1	0	22.27	0.1687	20.32	0.1076
Highest		1	0	22.35	0.1718	20.40	0.1096
Lowest	64QAM	1	24	21.26	0.1337	19.31	0.0853
Middle		1	24	21.35	0.1365	19.40	0.0871
Highest		1	24	21.34	0.1361	19.39	0.0869
Limit	ERP < 3W			Result		PASS	

LTE Band 14 / 10MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.01	0.2000	21.06	0.1276
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	22.37	0.1726	20.42	0.1102
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	49	21.35	0.1365	19.40	0.0871
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	

**Radiated Spurious Emission****LTE Band 14**

LTE Band 14 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1576	-43.34	-42.15	-1.19	-54.79	-45.33	0.95	5.09	H
	2368	-45.31	-13	-32.31	-61.87	-46.91	1.25	5.00	H
	3152	-42.42	-13	-29.42	-61	-45.24	1.50	6.47	H
	3944	-43.38	-13	-30.38	-63.31	-48.02	1.74	8.53	H
	4728	-41.83	-13	-28.83	-64.02	-46.66	2.18	9.16	H
	5520	-54.46	-13	-41.46	-79.09	-59.38	2.64	9.71	H
	6304	-50.41	-13	-37.41	-76.33	-55.53	2.81	10.08	H
	1576	-43.48	-42.15	-1.33	-55.35	-45.47	0.95	5.09	V
	2368	-46.18	-13	-33.18	-63.09	-47.78	1.25	5.00	V
	3152	-37.46	-13	-24.46	-56.65	-40.28	1.50	6.47	V
	3944	-43.20	-13	-30.20	-63.22	-47.84	1.74	8.53	V
	4728	52.32	-13	65.32	-64.87	47.49	2.18	9.16	V
	5520	-54.56	-13	-41.56	-79.23	-59.48	2.64	9.71	V
	6304	-52.96	-13	-39.96	-78.75	-58.08	2.81	10.08	V
Middle	1584	-43.38	-42.15	-1.23	-54.74	-45.35	0.95	5.06	H
	2376	-45.68	-13	-32.68	-62.35	-47.31	1.25	5.03	H
	3160	-40.96	-13	-27.96	-59.5	-43.82	1.50	6.50	H
	3952	-43.14	-13	-30.14	-63.06	-47.79	1.75	8.54	H
	4744	-41.64	-13	-28.64	-63.89	-46.49	2.19	9.19	H
	5536	-53.96	-13	-40.96	-78.72	-58.88	2.65	9.71	H
	6328	-50.34	-13	-37.34	-76.27	-55.48	2.81	10.10	H
	1584	-43.57	-42.15	-1.42	-55.44	-45.54	0.95	5.06	V
	2376	-45.81	-13	-32.81	-62.9	-47.44	1.25	5.03	V
	3160	-37.72	-13	-24.72	-56.96	-40.58	1.50	6.50	V
	3952	-43.64	-13	-30.64	-63.75	-48.29	1.75	8.54	V
	4744	-43.07	-13	-30.07	-65.26	-47.92	2.19	9.19	V
	5536	-55.04	-13	-42.04	-79.77	-59.96	2.65	9.71	V
	6328	-53.18	-13	-40.18	-78.95	-58.32	2.81	10.10	V



LTE Band 14 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1584	-43.31	-42.15	-1.16	-54.7	-45.28	0.95	5.06	H
	2384	-46.38	-13	-33.38	-62.99	-48.03	1.25	5.05	H
	3176	-41.54	-13	-28.54	-60.18	-44.46	1.50	6.57	H
	3968	-43.67	-13	-30.67	-63.58	-48.33	1.75	8.56	H
	4760	-41.42	-13	-28.42	-63.75	-46.29	2.20	9.22	H
									H
									H
	1584	-43.66	-42.15	-1.51	-55.52	-45.63	0.95	5.06	V
	2384	-45.73	-13	-32.73	-62.75	-47.38	1.25	5.05	V
	3176	-37.54	-13	-24.54	-56.84	-40.46	1.50	6.57	V
	3968	-43.82	-13	-30.82	-63.93	-48.48	1.75	8.56	V
	4760	-42.77	-13	-29.77	-64.99	-47.64	2.20	9.22	V
									V
									V

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



LTE Band 14 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1576	-43.23	-42.15	-1.08	-54.58	-45.22	0.95	5.09	H
	2368	-45.37	-13	-32.37	-61.91	-46.97	1.25	5.00	H
	3152	-42.54	-13	-29.54	-61.12	-45.36	1.50	6.47	H
	3944	-43.18	-13	-30.18	-63.02	-47.82	1.74	8.53	H
	4728	-42.96	-13	-29.96	-65.17	-47.79	2.18	9.16	H
	5520	-53.72	-13	-40.72	-78.39	-58.64	2.64	9.71	H
	6312	-50.77	-13	-37.77	-76.71	-55.89	2.81	10.09	H
	1576	-43.53	-42.15	-1.38	-55.4	-45.52	0.95	5.09	V
	2368	-44.32	-13	-31.32	-61.31	-45.92	1.25	5.00	V
	3152	-38.74	-13	-25.74	-57.9	-41.56	1.50	6.47	V
	3944	-42.97	-13	-29.97	-63.07	-47.61	1.74	8.53	V
	4728	-43.28	-13	-30.28	-65.42	-48.11	2.18	9.16	V
	5520	-54.66	-13	-41.66	-79.31	-59.58	2.64	9.71	V
	6312	-52.64	-13	-39.64	-78.43	-57.76	2.81	10.09	V

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