



Report No.: FG1N1847D

FCC RADIO TEST REPORT

FCC ID : PU5-TP00127BLF Equipment : Notebook Computer

Brand Name : Lenovo Model Name : TP00127B

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, China

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

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Nov. 18, 2021 and testing was performed from Jan. 03, 2022 to Jan. 25, 2022. 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 of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Lunis Win

Sporton International Inc. Wensan Laboratory

 TEL: 0800-800005
 Page Number
 : 1 of 15

 FAX: 886-3-327-0855
 Issued Date
 : Mar. 01, 2022

 E-mail: Alex@sporton.com.tw
 Report Version
 : 01

Table of Contents

His	tory o	f this test reportf	3
Su	mmary	/ of Test Result	4
1	Gene	ral Description	5
	1.1	Product Feature of Equipment Under Test	5
	1.2	Product Specification of Equipment Under Test	5
	1.3	Modification of EUT	5
	1.4	Testing Site	6
	1.5	Applied Standards	6
2	Test (Configuration of Equipment Under Test	7
	2.1	Test Mode	7
	2.2	Connection Diagram of Test System	7
	2.3	Support Unit used in test configuration and system	8
	2.4	Frequency List of Low/Middle/High Channels	8
3	Cond	ucted Test Items	9
	3.1	Measuring Instruments	9
	3.2	Conducted Output Power Measurement and ERP	10
4	Radia	ated Test Items	11
	4.1	Measuring Instruments	11
	4.2	Radiated Spurious Emission	13
5	List o	of Measuring Equipment	14
6	Unce	rtainty of Evaluation	15
-	•	A. Test Results of Conducted Test	
Аp	pendix	Rest Results of Radiated Test	
Аp	pendix	c C. Test Setup Photographs	

TEL: 0800-800005 FAX: 886-3-327-0855 E-mail: Alex@sporton.com.tw

Report Template No.: BU5-FGLTE90R Version 2.4

Page Number Issued Date

Report Version : 01

: 2 of 15

: Mar. 01, 2022

Report No.: FG1N1847D

History of this test report

Report No.: FG1N1847D

Report No.	Version	Description	Issued Date
FG1N1847D	01	Initial issue of report	Mar. 01, 2022

 TEL: 0800-800005
 Page Number
 : 3 of 15

 FAX: 886-3-327-0855
 Issued Date
 : Mar. 01, 2022

 E-mail: Alex@sporton.com.tw
 Report Version
 : 01

Summary of Test Result

Report No.: FG1N1847D

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark	
2.0	§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 §90.539 (e)	Frequency Stability Temperature & Voltage	-	See Note	
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 7.15 dB at 1584.000 MHz	

Note:

- 1. The module (Model: L860-GL-16) makes no difference after verifying output power, this report reuses test data from the module report.
- Conducted power was verified to be consistent with the original modular approval, so the output power level in the original modular grant is referenced in this report for determining ERP of this host product.

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 this 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: Sheng Kuo Report Producer: Ruby Zou

TEL: 0800-800005 Page Number : 4 of 15 FAX: 886-3-327-0855 Issued Date : Mar. 01, 2022

E-mail : Alex@sporton.com.tw Report Version : 01

1 General Description

1.1 Product Feature of Equipment Under Test

	Product Feature
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00127B
FCC ID	PU5-TP00127BLF
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS
EUT Stage	Production Unit

Report No.: FG1N1847D

Remark:

- **1.** The above EUT's information was declared by manufacturer.
- 2. Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

WWAN Antenna Information								
Main Antonno	Manufacturer	AWAN	Peak gain (dBi)	LTE Band 14 : -2.9				
Main Antenna	Part number	025.901S1.0071	Туре	PIFA				

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	790.5 MHz ~ 795.5 MHz						
Rx Frequency	760.5 MHz ~ 765.5 MHz						
Bandwidth	5MHz / 10MHz						
Maximum Output Power to Antenna	23.35 dBm						
Type of Modulation	QPSK / 16QAM / 64QAM						

1.3 Modification of EUT

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

TEL: 0800-800005 Page Number : 5 of 15
FAX: 886-3-327-0855 Issued Date : Mar. 01, 2022

E-mail: Alex@sporton.com.tw Report Version : 01

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.						
rest Site No.	TH03-HY (TAF Code: 1190)						
Test Engineer	HaoEn Zhang						
Temperature (°C)	22.1~23.4						
Relative Humidity (%)	51.8~55.6						
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.						

Report No.: FG1N1847D

Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010			
Test Site No.	Sporton Site No.			
rest site No.	03CH20-HY			
Test Engineer	Bill Chang and JC Liang			
Temperature (°C)	20~23			
Relative Humidity (%)	66~69			

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 of 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 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.

TEL: 0800-800005 Page Number : 6 of 15
FAX: 886-3-327-0855 Issued Date : Mar. 01, 2022

E-mail : Alex@sporton.com.tw Report Version : 01

2 Test Configuration of Equipment Under Test

2.1 Test Mode

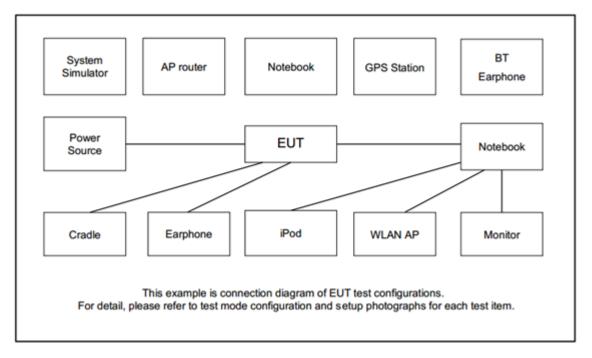
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Report No.: FG1N1847D

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 find X Plane as worst plane.

Conducted	Donal		Ва	Bandwidth (MHz)		Modulation			RB#			Test Channel				
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
Max. Output Power	14	-	-	v	v	-	,	٧	v	٧	٧		v	v	v	v
E.R.P	14	-	-	v	v	-		v	v	V		ı	Max.	Powe	r	
Radiated																
Spurious	14	-	-	V	V	-	-	V			٧			٧	V	٧
Emission																
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



 TEL: 0800-800005
 Page Number
 : 7 of 15

 FAX: 886-3-327-0855
 Issued Date
 : Mar. 01, 2022

Report Version

: 01

E-mail : Alex@sporton.com.tw

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

Report No.: FG1N1847D

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	-					
E	Channel	23305	23330	23355					
5	Frequency	790.5	793	795.5					

 TEL: 0800-800005
 Page Number
 : 8 of 15

 FAX: 886-3-327-0855
 Issued Date
 : Mar. 01, 2022

 E-mail: Alex@sporton.com.tw
 Report Version
 : 01

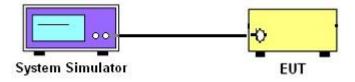
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



Report No.: FG1N1847D

3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

 TEL: 0800-800005
 Page Number
 : 9 of 15

 FAX: 886-3-327-0855
 Issued Date
 : Mar. 01, 2022

 E-mail: Alex@sporton.com.tw
 Report Version
 : 01

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.

Report No.: FG1N1847D

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.

 TEL: 0800-800005
 Page Number
 : 10 of 15

 FAX: 886-3-327-0855
 Issued Date
 : Mar. 01, 2022

 E-mail: Alex@sporton.com.tw
 Report Version
 : 01

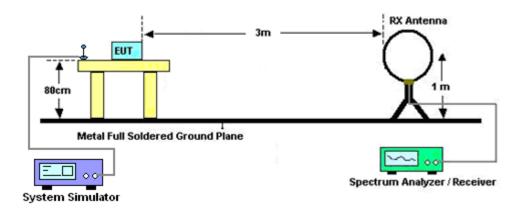
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

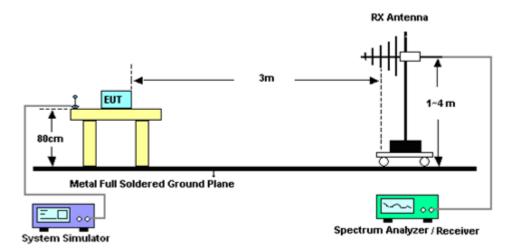
4.1.1 Test Setup

For radiated test below 30MHz



Report No.: FG1N1847D

For radiated test from 30MHz to 1GHz



TEL: 0800-800005 Page Number : 11 of 15 FAX: 886-3-327-0855 Issued Date : Mar. 01, 2022

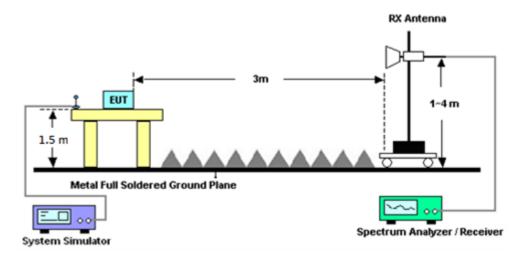
Report Version

: 01

Report Template No.: BU5-FGLTE90R Version 2.4

E-mail: Alex@sporton.com.tw

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.

TEL: 0800-800005 FAX: 886-3-327-0855 E-mail: Alex@sporton.com.tw

Report Template No.: BU5-FGLTE90R Version 2.4

Page Number : 12 of 15 Issued Date : Mar. 01, 2022

Report No.: FG1N1847D

Report Version : 01

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.

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)

FAX: 886-3-327-0855

E-mail: Alex@sporton.com.tw

TEL: 0800-800005

Report Template No.: BU5-FGLTE90R Version 2.4

Page Number

: 13 of 15

Report No.: FG1N1847D

Issued Date Report Version : Mar. 01, 2022

: 01

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6201664755	2/3/4G/LTE FDD/TDD with44)/LTE-3C C DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 21, 2021	Jan. 03, 2022~ Jan. 07, 2022	Jul. 20, 2022	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	Jan. 03, 2022~ Jan. 07, 2022	Jan. 08, 2022	Conducted (TH03-HY)
EMI Test Receicver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	Jan. 08, 2022~ Jan. 25, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWE R	PAM-103	18020201	1MHz-1000MHz	Jan. 03, 2022	Jan. 08, 2022~ Jan. 25, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 15, 2021	Jan. 08, 2022~ Jan. 25, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Jan. 08, 2022~ Jan. 25, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	Jan. 08, 2022~ Jan. 25, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Jan. 08, 2022~ Jan. 25, 2022	Oct. 08, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	Jan. 08, 2022~ Jan. 25, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	02360	1GHz~18GHz	Nov. 02, 2021	Jan. 08, 2022~ Jan. 25, 2022	Nov. 01, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 09, 2021	Jan. 08, 2022~ Jan. 25, 2022	Mar. 08, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80401 5/2,804027/2	N/A	Jan. 20, 2021	Jan. 08, 2022~ Jan. 18, 2022	Jan. 19, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80401 5/2,804027/2	N/A	Jan. 19, 2022	Jan. 19, 2022~ Jan. 25, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Jan. 08, 2022~ Jan. 25, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 08, 2022~ Jan. 25, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 08, 2022~ Jan. 25, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 08, 2022~ Jan. 25, 2022	N/A	Radiation (03CH20-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 08, 2021	Jan. 08, 2022~ Jan. 25, 2022	Dec. 07, 2022	Radiation (03CH20-HY)

Report No.: FG1N1847D

E-mail : Alex@sporton.com.tw Report Version : 01
Report Template No.: BU5-FGLTE90R Version 2.4

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.33 dB
Confidence of 95% (U = 2Uc(y))	3.33 UB

Report No.: FG1N1847D

: 01

Report Version

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

Measuring Uncertainty for a Level of	3 C3 AB
Confidence of 95% (U = 2Uc(y))	3.63 dB

TEL: 0800-800005 Page Number : 15 of 15
FAX: 886-3-327-0855 Issued Date : Mar. 01, 2022

E-mail : Alex@sporton.com.tw Report Template No.: BU5-FGLTE90R Version 2.4

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -2.9 dB)										
BW [MHz]	RB Size RB Offset Mod Lowest Middle Highest ERP (dBm) ER									
10	1	0			23.35					
10	1	49	QPSK		23.09		18.3	0.0676		
10	50	0		-	22.11	-				
10	1	0	16-QAM		22.80		17.75	0.0596		
10	1	0	64-QAM		22.59		17.54	0.0568		
Limit ERP < 3W				Result Pass			ISS			

Report No. : FG1N1847D

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -2.9 dB)									
BW [MHz]	RB Size RB Offset Mod Lowest Middle Highest ERP (dBm) ERP (W								
5	1	0	QPSK	23.21	23.32	23.14	18.27	0.0671	
5	1	0	16-QAM	22.62	22.79	22.55	17.74	0.0594	
5	1	0	64-QAM	21.64	22.48	21.98	17.43	0.0553	
Limit	ERP < 3W			Result			Pass		

Appendix B. Test Results of Radiated Test

LTE Band 14

Report No.: FG1N1847D

	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)		
	1576	-49.67	-42.15	-7.52	-59.52	-51.61	4.82	8.91	Н		
	2368	-54.72	-13	-41.72	-67.42	-57.14	5.93	10.50	Н		
	3152	-61.06	-13	-48.06	-77.63	-62.64	6.87	10.61	Н		
									Н		
									Н		
Lowest									Н		
Lowest	1576	-52.46	-42.15	-10.31	-62.13	-54.40	4.82	8.91	V		
	2368	-51.62	-13	-38.62	-64.36	-54.04	5.93	10.50	V		
	3152	-61.99	-13	-48.99	-78.28	-63.57	6.87	10.61	V		
									V		
									V		
									V		
	1584	-49.30	-42.15	-7.15	-59.17	-51.29	4.83	8.97	Н		
	2376	-56.78	-13	-43.78	-69.50	-59.19	5.94	10.50	Н		
	3168	-61.67	-13	-48.67	-78.32	-63.30	6.89	10.67	Н		
									Н		
									Н		
Middle									Н		
Middle	1584	-53.32	-42.15	-11.17	-62.99	-55.31	4.83	8.97	V		
	2376	-55.48	-13	-42.48	-68.24	-57.89	5.94	10.50	V		
	3168	-61.94	-13	-48.94	-78.31	-63.57	6.89	10.67	V		
									V		
									V		
									V		

TEL: 0800-800005 Page Number : B1 of B3

FAX: 886-3-327-0855 E-mail: Alex@sporton.com.tw



	1584	-50.09	-42.15	-7.94	-59.96	-52.08	4.83	8.97	Н
	2384	-55.51	-13	-42.51	-68.24	-57.91	5.95	10.50	Н
	3176	-59.46	-13	-46.46	-76.14	-61.11	6.90	10.70	Н
									Н
									Н
∐igh oot									Н
Highest	1584	-52.70	-42.15	-10.55	-62.37	-54.69	4.83	8.97	V
	2384	-52.39	-13	-39.39	-65.17	-54.79	5.95	10.50	V
	3176	-60.86	-13	-47.86	-77.28	-62.51	6.90	10.70	V
									V
									V
									V

Report No.: FG1N1847D

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

TEL: 0800-800005 Page Number : B2 of B3

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	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)		
	1576	-50.74	-42.15	-8.59	-60.59	-52.68	4.82	8.91	Н		
	2368	-55.22	-13	-42.22	-67.92	-57.64	5.93	10.50	Н		
	3152	-61.17	-13	-48.17	-77.74	-62.75	6.87	10.61	Н		
									Н		
									Н		
Middle									Н		
Middle	1576	-53.15	-42.15	-11.00	-62.82	-55.09	4.82	8.91	V		
	2368	-55.83	-13	-42.83	-68.57	-58.25	5.93	10.50	V		
	3152	-62.25	-13	-49.25	-78.54	-63.83	6.87	10.61	V		
									V		
									V		
									V		

Report No.: FG1N1847D

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

TEL: 0800-800005 Page Number : B3 of B3

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