



시험 성적서 TEST REPORT

페이지(page) : (1) / (총(Total) 5)

성적서 번호 Report No.		ICRT-TR-E190571-0A	
신청자 Client	기관명 Name	IRIVER LIMITED	
	주소 Address	Iriverhouse, 5, Bangbae-ro 18-gil, Seocho-gu Seoul, South Korea	
시험대상품목 Sample description		NCT OFFICIAL FANLIGHT	
모델명 Type designation		SME-NCT-OFL01	
정격 Ratings		DC 4.5 V	
시험기간 Date of test		Mar. 21, 2019 ~ Mar. 25, 2019	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C §15.247 / IC RSS-247	
시험결과 Test Results		Refer to 3.3 Calculated MPE Safe Distance	
확인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성명 Name Hong-Kyu, Lee (Signature)	성명 Name Jun-Hui, Lee (Signature)	(서명)

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2019. 04. 05

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경기도 김포시 양촌읍 황금3로7번길 112

112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea



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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E190571-0A	05-Apr-2019	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	IRIVER LIMITED
Address	Iriverhouse, 5, Bangbae-ro 18-gil, Seocho-gu Seoul, South Korea
Contact Person	Woo-Suk, Kim
Telephone No.	+82-2-3019-7514
Fax No.	+82-2-3019-7575
E-mail	kimmy.kim@iriver.com

1.2 Manufacturer Information

Manufacturer	IRIVER LIMITED
Address	Iriverhouse, 5, Bangbae-ro 18-gil, Seocho-gu Seoul, South Korea

1.3 Test Laboratory Information

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
RRA No.	KR0165
KOLAS No.	KT652



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	NCT OFFICIAL FANLIGHT
Brand Name	-
Model Name	SME-NCT-OFL01
Additional Model Name	-
FCC ID / ISED number	QDM-SME-NCT-OFL01 / 24856-SMENCTOFL01
Hardware Version	-
Software Version	-
Power Supply	DC 4.5 V

2.2 Additional Information

Equipment Class	DTS-Digital Transmission System
Device Type	Stand-alone
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-7.98 dBm
Number of Channel	40
Modulation Type	GFSK
Antenna Type	PCB Pattern Antenna
Antenna Gain	-2.96 dBi
Antenna Operating Mode	Single Antenna Equipment with only one antenna
List of Each Oscillator or Crystal Frequency	32 MHz

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

2.4 Modifications of EUT

- None



3. Maximum Permissible Exposure

3.1 RF Exposure calculation

According to the FCC rule §1.1310 and RSS-102 issue 5, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 MHz ~ 100 000 MHz.

Kind of EUT	NCT OFFICIAL FANLIGHT
Operating Frequency Band	<input type="checkbox"/> WLAN(802.11b/g/n(HT20)): 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN(802.11n(HT40)): 2 422 MHz ~ 2 452 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input checked="" type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz
Max. Output Power	-7.98 dBm
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

3.2 Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (0.18/5) \times \sqrt{2.480} = 0.06$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Operating Mode	Frequency (MHz)	Target Power W / tolerance	Max tune up power		Separation distance (mm)	RF exposure
		(dBm)	(dBm)	(mW)		
Bluetooth LE	2 480	-7.98 ± 0.5	-7.48	0.18	5	0.06