

# ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : OT-193-RWD-006

AGR No. : A18DA-211

Applicant : Ncm Co.,Ltd

Address : 9.Ansantekom 1-gil,Sangnok-gu,Ansan-si,Gyeonggi-do,Korea

Manufacturer : Ncm Co.,Ltd

Address : 9.Ansantekom 1-gil,Sangnok-gu,Ansan-si,Gyeonggi-do,Korea

Type of Equipment : Remote Controller

FCC ID. : 2ASMT-NB-R1773

Model Name : NB-R1773

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 7 pages (including this page)

Date of Incoming : January 14, 2019

Date of issue : March 06, 2019

## SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

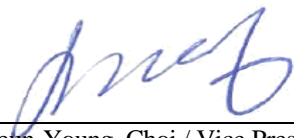
It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:



Jae-Ho Lee / Chief Engineer  
ONETECH Corp.

Approved by:



Keun-Young, Choi / Vice President  
ONETECH Corp.

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### Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-193-RWD-006	March 06, 2019	Initial Issue	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : Ncm Co.,Ltd  
 Address : 9.Ansantekom 1-gil,Sangnok-gu,Ansan-si,Gyeonggi-do,Korea  
 Contact Person : Shoufu Yang / Manager  
 Telephone No. : +82-31-419-4070  
 FCC ID : 2ASMT-NB-R1773  
 Model Name : NB-R1773  
 Brand Name : -  
 Serial Number : N/A  
 Date : March 06, 2019

EQUIPMENT CLASS	<b><i>DTS – DIGITAL TRNSMISSION SYSTEM</i></b>
E.U.T. DESCRIPTION	Remote Controller
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. GENERAL INFORMATION

### 2.1 Product Description

The Ncm Co.,Ltd, Model NB-R1773 (referred to as the EUT in this report) is a Remote Controller. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Remote Controller
Operating Frequency	2 422 MHz
RF Output Power	-3.75 dBm
Number of Channel	1 Channels
Modulation Type	FSK
Antenna Type	PCB Antenna
Antenna Gain	1.325 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	3.58 MHz
Rated Supply Voltage	DC 3.0 V

### 2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

## 3. EUT MODIFICATIONS

-. None

## 4. MAXIMUM PERMISSIBLE EXPOSURE

### 4.1 RF Exposure Limit

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm<sup>2</sup> for the device operating 1 500 ~ 100 000 MHz.

### 4.2 EUT Description

Kind of EUT	Remote Controller
Operating Frequency Band	<input type="checkbox"/> Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz <input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 240 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz <input type="checkbox"/> Bluetooth BLE: 2 402 MHz ~ 2 480 MHz <input checked="" type="checkbox"/> 2 422 MHz
MAX. RF OUTPUT POWER	-3.75 dBm
Antenna Gain	1.325 dBi
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> SAR Test Exclusion Evaluation

### 4.3 Test Result Calculated MPE Safe Distance

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

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

$$= (0.47/5) \times \sqrt{2.422} = 0.15$$

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

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 422	-3.75 ± 0.5	-3.25	0.47	5	0.15



Tested by: Yu-Seog, Sim / Assistant Manager