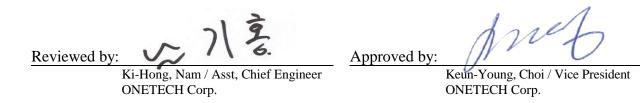
# DNETECH

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

Test Report No.	: W17OR-D027
AGR No.	: A17OA-188
Applicant	: LG Innotek Co., Ltd.
Address	: 26, Hanamsandan 5beon-ro Gwangsan-gu, 506-731, Gwangju, South Korea
Manufacturer	: SUZHOU NIHONE Electronics Technology Co., LTD.
Address	: No.185 XiaoXiang Road Suzhou High tech Zone
Type of Equipment	: Electronic Shelf Label
FCC ID.	: YZP-REBETZ21D
Model Name	: REBE-TZ21D
Multiple Model Name	: N/A
Serial number	: N/A
Total page of Report	: 6 pages (including this page)
Date of Incoming	: October 17, 2017
Date of issue	: October 20, 2017

## 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.



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EMC-003 (Rev.2)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



## CONTENTS

#### PAGE

1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION	5
2.1 PRODUCT DESCRIPTION	5
2.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT	5
3. EUT MODIFICATIONS	5
3. EUT MODIFICATIONS 4.1 RF Exposure Limit	
	6



## **REVISION HISTORY**

Issued Report No.	Issued Date	Revisions	Effect Section
W17OR-D027	October 20, 2017	Initial Issue	All

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## **1. VERIFICATION OF COMPLIANCE**

Applicant	: LG Innotek Co., Ltd.
Address	: 26, Hanamsandan 5beon-ro Gwangsan-gu, 506-731, Gwangju, South Korea
Contact Person	: Jeong, Inchang / Director
Telephone No.	: +86-62-950-0332
FCC ID	: YZP-REBETZ21D
Model Name	: REBE-TZ21D
Serial Number	: N/A
Date	: October 20, 2017

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM			
E.U.T. DESCRIPTION	Electronic Shelf Label			
THIS REPORT CONCERNS	Original Grant			
MEASUREMENT PROCEDURES	ANSI C63.10: 2013			
TYPE OF EQUIPMENT TESTED	Pre-Production			
KIND OF EQUIPMENT	Certification			
AUTHORIZATION REQUESTED				
EQUIPMENT WILL BE OPERATED	FOC DADE 15 SUDDADE C Station 15 247			
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247			
Modifications on the Equipment to Achieve	New			
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 LG Innotek Co., Ltd., Model REBE-TZ21D (referred to as the EUT in this report) is a Electronic Shelf Label. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Electronic Shelf Label			
Temperature Range	0 °C ~ +30 °C			
Operating Frequency	2 405 MHz ~ 2 480 MHz			
RF Output Power	3.92 dBm			
Number of Channel	16 Channel			
Modulation Type	O-QPSK			
Antenna Type	PCB Pattern Antenna			
Antenna Gain	-0.26 dBi			
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz			
RATED SUPPLY VOLTAGE	3.0 V Battery			

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

-. None

### **3. EUT MODIFICATIONS**

-. None



#### 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	Electronic Shelf Label				
	□ Wireless Microphone: 494.000 MHz ~ 501.000 MHz				
	and 498.200 MHz ~ 505.200 MHz				
	□ WLAN: 2 412 MHz ~ 2 462 MHz				
Operating Frequency Band	□ WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz				
	□ WLAN: 5 745 MHz ~ 5 825 MHz				
	□ Bluetooth: 2 402 MHz ~ 2 480 MHz				
	■ Zigbee: 2 405 MHz ~ 2 480 MHz				
	□ Portable (< 20 cm separation)				
Device Category	$\Box$ Mobile (> 20 cm separation)				
	■ Others				
Max. Output Power	3.92 dBm				
Used Antenna	PCB Pattern Antenna				
Used Antenna Gain	-0.26 dBi				
	■ MPE				
Exposure Evaluation Applied	□ SAR				
	□ N/A				

### 4.3 Test Result

According to above equation, the following result was obtained.

Operating Mode	Target Power W/tolerance	Max tune up power		Antenna Gain		Safe Distance	Power Density (mW/cm <sup>2</sup> ) @ 20 cm	Limit (mW/cm <sup>2</sup> )
	(dBm)	(dBm)	(mW)	Log	Linear	(cm)	Separation	
Zigbee	$3.42\pm0.50$	3.92	2.47	-0.26	0.94	0.43	0.000 5	1.00

Tested by: Hyung-Kwon, Oh / Assistant Manager

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