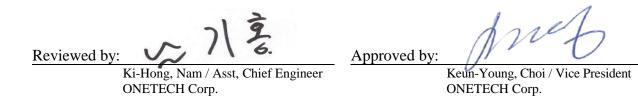
DNETECH

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

Test Report No.	: W178R-D036
AGR No.	: A177A-134
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-REBETZ21B2
Model Name	: REBE-TZ21B
Multiple Model Name	: REBE-MZ21B
Serial number	: N/A
Total page of Report	: 6 pages (including this page)
Date of Incoming	: July 03, 2017
Date of issue	: August 18, 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)



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3. EUT MODIFICATIONS	6



REVISION HISTORY

Issued Report No.	Issued Date Revisions		Effect Section
W163R-D015	March 08, 2016	Initial Issue	All
W178R-D036	August 18, 2017	Testing purpose for the current report is to update standard version and main board change.	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-REBETZ21B2
Model Name	: REBE-TZ21B
Serial Number	: N/A
Date	: August 18, 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 FCC PART 15 SUBPART C Section 15.247		
AUTHORIZATION REQUESTED			
EQUIPMENT WILL BE OPERATED			
UNDER FCC RULES PART(S)			
Modifications on the Equipment to Achieve	N		
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-TZ21B (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 ~ +40 °C			
Operating Frequency	2 405 MHz ~ 2 480 MHz			
RF Output Power	1.36 dBm			
Number of Channel	16 Channel			
Modulation Type	O-QPSK			
Antenna Type	PCB Pattern Antenna			
USED RF CHIP	Marker: TEXAS INSRUMENTS			
USED KF CHIP	Model Name: CC2530			
Antenna Gain	0.91 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.

-. The following lists consist of the added model and their differences.

	Model Name	Differences			
	DEDE 7701D	Basic Model.			
REBE-TZ21B		(DISPLAY: COLOR)	Ø		
		These models are identical to basic model except for the DISPLAY.			
REBE-MZ21B		(DISPLAY: MONO)			

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

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/cm² 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				
	\Box Portable (< 20 cm separation)				
Device Category	\Box Mobile (> 20 cm separation)				
	■ Others				
Max. Output Power	1.36 dBm				
Used Antenna	PCB Pattern Antenna				
Used Antenna Gain	0.91 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 ²) @ 20 cm	Limit (mW/cm²)
	(dBm)	(dBm)	(mW)	Log	Linear	(cm)	Separation	
Zigbee	1.0 ± 0.5	1.5	1.41	0.91	1.23	0.37	0.000 3	1.00

Tested by: Tae-Ho, Kim / Manager

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