

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

Test Report No. : W159R-D022

AGR No. : A158A-147

Applicant : LG Innotek Co., Ltd.
Address : 978-1, Jangduk-dong, Gwangsan-gu, Gwangju, 506-731, Korea

Manufacturer : SUZHOU NIHONE Electronics Technology Co., LTD.
Address : No.185 XiaoXiang Road Suzhou High tech Zone

Type of Equipment : Electric Shelf Label

FCC ID. : YZP-REBETZ29A

Model Name : REBE-TZ29A

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : August 31, 2015

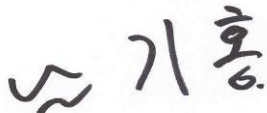
Date of issue : September 14, 2015

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: 
Ki-Hong, Nam / Asst, Chief Engineer
ONETECH Corp.

Approved by: 
Sung-Ik, Han/ Managing Director
ONETECH Corp.

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
4. RADIO FREQUENCY EXPOSURE	6
4.1 RF EXPOSURE LIMIT	6
4.2 EUT DESCRIPTION.....	6
4.3 TEST RESULT	6

Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W159R-D022	September 14, 2015	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : LG Innotek Co., Ltd.
Address : 978-1, Jangduk-dong, Gwangsan-gu, Gwangju, 506-731, Korea
Contact Person : Jeong, Inchang / Director
Telephone No. : +86-62-950-0332
FCC ID : YZP-REBETZ29A
Model Name : REBE-TZ29A
Serial Number : N/A
Date : September 14, 2015

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Electric Shelf Label
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 LG Innotek Co., Ltd., Model REBE-TZ29A (referred to as the EUT in this report) is a Electric Shelf Label. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Electric Shelf Label
Temperature Range	0 °C ~ +40 °C
Operating Frequency	2 405 MHz ~ 2 480 MHz
RF Output Power	-0.02 dBm
Number of Channel	16 Channel
Modulation Type	O-QPSK
Antenna Type	PCB Pattern Antenna
USED RF CHIP	Marker: TEXAS INSTRUMENTS Model Name: CC2530
Antenna Gain	-1.35 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz
RATED SUPPLY VOLTAGE	1.5 V Alkaline Battery(AAAA) * 2

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

-. None

3. EUT MODIFICATIONS

-. None

4. RADIO FREQUENCY EXPOSURE

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	Electric Shelf Label
Operating Frequency Band	☐ Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz ☐ WLAN: 2 412 MHz ~ 2 462 MHz ☐ 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
Device Category	☐ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☒ Others
Max. Output Power	-0.02 dBm
Used Antenna	PCB Pattern Antenna
Used Antenna Gain	-1.35 dBi
Exposure Evaluation Applied	☒ MPE ☐ 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 (cm)	Power Density (mW/cm ²) @ 20 cm Separation	Limit (mW/cm ²)
	(dBm)	(dBm)	(mW)	Log	Linear			
Zigbee	-0.5 ± 0.5	0	1.0	-1.35	0.73	0.24	0.000 1	1.00