



**BUREAU  
VERITAS**

Test Report No.: FS170111N040

# RF EXPOSURE REPORT

Applicant	INNOVATIVE TECHNOLOGY ELECTRONICS LLC
Address	1 CHANNEL DRIVE, PORT WASHINGTON, NY 11050, USA

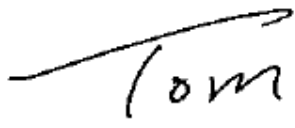

Manufacturer or Supplier	Guangdong Leetac Electronics Technology Co., Ltd.
Address	No.15 Danli Road, South District, Zhongshan, Guangdong, China.
Product	BRIGHT TUNES
Brand Name	Innovative Technology, Victrola, Bright Tunes
Model	BRT-401-WEE-12
Additional Model & Model Difference	BRT-401-EEE-12, BRT-401-xy-z, see item 1.
Date of tests	Jan. 11, 2017 ~ Mar. 28, 2017

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	  Date: Apr. 01, 2017

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**Bureau Veritas Shenzhen Co., Ltd.**  
Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd., Houjie  
Town, Dongguan City,  
Guangdong 523942, China

Tel: +86 769 8593 5656  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.bureauveritas.com)



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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170111N040	Original release	Apr. 01, 2017

**Bureau Veritas Shenzhen Co., Ltd.**  
**Dongguan Branch**

No. 34, Chenwulu Section, Guantai Rd., Houjie  
Town, Dongguan City,  
Guangdong 523942, China

Tel: +86 769 8593 5656  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.bureauveritas.com)



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## 1. CERTIFICATION

<b>FCC ID:</b>	2AFHW-BRTUN
<b>PRODUCT:</b>	BRIGHT TUNES
<b>BRAND NAME:</b>	Innovative Technology, Victrola, Bright Tunes
<b>MODEL NO.:</b>	BRT-401-WEE-12
<b>ADDITIONAL NO.:</b>	BRT-401-EEE-12, BRT-401-xy-z
<b>APPLICANT:</b>	INNOVATIVE TECHNOLOGY ELECTRONICS LLC
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

### NOTE:

- Additional models BRT-401-EEE-12, BRT-401-xy-z are identical with the test model BRT-401-WEE-12 except with different the color of the light string, the color or the shape of cosmetic decoration that is attached to strand and the numbers of lamps No., brand name for trading purpose.
  - Basic model: BRT-401-WEE-12
  - Alternative model: BRT-401-EEE-12, BRT-401-xy-z

(where “x” can be replaced by digit 0-1 or letter A-Z indicate the color of the light string;  
“y” can be replaced by 1 or 2 digit alphanumeric (0-9, A-Z) to indicate the color or shape of cosmetic decoration that is attached to strand;  
“z” can be replaced by digit 7 or above indicate the numbers of lamps.)
- Innovative Technology, Victrola and Bright Tunes can be used for all the models.



## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

## 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	0	Integral PCB Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2402-2480	-5	+2	-7	-3

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	-4.24
8DPSK	2402	-4.99

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2402-2480	-3	0	20	0.0001	1.0

--- END ---