



**BUREAU  
VERITAS**

Test Report No.: FS160526N067

# RF EXPOSURE REPORT

Applicant	ARTS DIGITAL TECHNOLOGY (HK) LTD
Address	1704,17/F, Fo Tan Industrial Centre, 26-28 Au Pui Wan St., Fo Tan, Hong Kong

Manufacturer or Supplier	ARTS DIGITAL TECHNOLOGY (HK) LTD
Address	1704,17/F, Fo Tan Industrial Centre, 26-28 Au Pui Wan St., Fo Tan, Hong Kong
Product	Bluetooth CD+G Karaoke System with Pedestal
Brand Name	ADT, AKAI, EASYKARAOKE,
Model	KS878-BT
Additional Model & Model Difference	EK878-BT, EK878, KS878, KS87X, KS87X-BT("x" can be 0-9, A-Z, which denote different export country, enclosure color and silk screen)
Date of tests	Jun. 03, 2016 ~ Jun. 23, 2016

☒ 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 Breeze Jiang  
Project Engineer / EMC Department

Approved by Chris Chen  
Manager / EMC Department

*Breeze*

*Chris*

Date: Jun. 23, 2016

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160526N067	Original release	Jun. 23, 2016



## 1. CERTIFICATION

<b>FCC ID:</b>	OWT-KS878BT
<b>PRODUCT:</b>	Bluetooth CD+G Karaoke System with Pedestal
<b>BRAND NAME:</b>	ADT, AKAI, EASYKARAOKE,
<b>MODEL NO.:</b>	KS878-BT
<b>ADDITIONAL NO.:</b>	EK878-BT, EK878, KS878, KS87X, KS87X-BT("x" can be 0-9, A-Z, which denote different export country, enclosure color and silk screen)
<b>TEST SAMPLE:</b>	Engineering Sample
<b>APPLICANT:</b>	ARTS DIGITAL TECHNOLOGY (HK) LTD
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



## 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

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

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	2	Integral PCB Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2402-2480	0.1089	2	20	0.00003433	1.0

--- END ---