

# RF EXPOSURE REPORT

Applicant	Stallion Sport Limited
Address	Block F, 6/F, Wah Hing Industrial Mansions, 36 Tai Yau Street, San Po Kong, Kowloon, Hong Kong



Manufacturer or Supplier	Stallion Sport Limited
Address	Block F, 6/F, Wah Hing Industrial Mansions, 36 Tai Yau Street, San Po Kong, Kowloon, Hong Kong
Product	Water Proof Blue Tooth Speaker
Brand Name	N/A
Model	HD-028
Additional Model & Model Difference	N/A
Date of tests	Feb. 08, 2018 ~ Mar. 01, 2018

☒ **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 Glyn He Supervisor/ EMC Department
	  Date: Mar. 22, 2018

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Test Report No.: FM180208N005

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180208N005	Original release	Mar. 22, 2018

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## 1. CERTIFICATION

<b>FCC ID:</b>	2AO6U-HD-028
<b>PRODUCT:</b>	Water Proof Blue Tooth Speaker
<b>BRAND NAME:</b>	N/A
<b>MODEL NO.:</b>	HD-028
<b>ADDITIONAL NO.:</b>	N/A
<b>APPLICANT:</b>	Stallion Sport Limited
<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

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

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	1.9	Wire Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	-9	+/-2	-11	-7
8DPSK	2402-2480	-6	+/-2	-8	-4

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	-7.94
8DPSK	2402	-4.85

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	-4	1.9	20	0.000123	1.0

--- END ---