



**BUREAU
VERITAS**

Test Report No.: FS170123N010

RF EXPOSURE REPORT

Applicant	Brilliant Dragon Manufacturing Factory Limited
Address	Division A,Liantang Industrial Zone,Zhuyuan Village,Liaobu Town,Dongguan City



Manufacturer or Supplier	Brilliant Dragon Manufacturing Factory Limited
Address	Division A,Liantang Industrial Zone,Zhuyuan Village,Liaobu Town,Dongguan City
Product	Mushroom Bluetooth speaker
Brand Name	N/A
Model	A3
Additional Model & Model Difference	N/A
Date of tests	Feb. 07, 2017 ~ Mar. 09, 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 Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	 Date: Apr. 15, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170123N010	Original release	Apr. 15, 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



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1. CERTIFICATION

FCC ID:	2ALGOGPSIA
PRODUCT:	Mushroom Bluetooth speaker
BRAND NAME:	N/A
MODEL NO.:	A3
ADDITIONAL NO.:	N/A
APPLICANT:	Brilliant Dragon Manufacturing Factory Limited
STANDARDS:	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 ²)	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/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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	-3.32
8DPSK	2402	-4.79

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	-3	0	20	0.000100	1.0

Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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