

RF EXPOSURE REPORT

Applicant	ZhongShan Longde S&T Technology CO.,Ltd
Address	No.33 Middle industry AV,XiaoLan Town,ZhongShan City,GD

Manufacturer or Supplier	ZhongShan Longde S&T Technology CO.,LTD				
Address	No.33 Middle industry Avenue, XiaoLan Town, ZhongShan City, GD				
Product	Musical Microphone Bluetooth Broadcaster				
Brand Name	Sharper Image, Black Series				
Model	LD-BT-MP2017				
Additional Model & Model Difference	1002596, 1002826, 1003388, 1002277, 1003072, 1004899, 1004900, 1004942, 1002618, see section 1				
Date of tests	Jun. 13, 2017 ~ Jul. 04, 2017				

- **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
Tom	Date: Jul. 10, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FS170613N017	Original release	Jul. 10, 2017	

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1. CERTIFICATION

	T	
FCC ID:	ZWPMP17LD	
PRODUCT:	Musical Microphone Bluetooth Broadcaster	
BRAND NAME: Sharper Image, Black Series		
MODEL NO.:	LD-BT-MP2017	
ADDITIONAL NO.:	1002596, 1002826, 1003388, 1002277, 1003072, 1004899, 1004900, 1004942, 1002618	
APPLICANT:	ZhongShan Longde S&T Techonology CO.,Ltd	
STANDARDS:	FCC Part 2 (Section 2.1093)	
	KDB 447498 D01	
	IEEE C95.1	

NOTE:

1. Additional models 1002596, 1002826, 1003388, 1002277, 1003072, 1004899, 1004900, 1004942, 1002618 are identical with the test model LD-BT-MP2017 except the appearance color, silk-screen and model number for trading purpose.

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2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-(f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(MHz))]$ for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3. CLASSIFICATION

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

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4. SAR TEST EXCLUSION THRESHOLDS

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	-5	+-2	-7	-3	
π/4 DQPSK	2402-2480	-5	+-2	-7	-3	

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2441	-4.41
π/4 DQPSK	2480	-4.69

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremit y SAR	Verdict
2402-2480	-3	5	0.158	3.0	7.5	Exempt from SAR

Conclusion

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

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