

RF EXPOSURE REPORT

Applicant	MerchSource LLC		
Address	755 Irvine Center Drive, Suite 100 92618		
Manufacturer or Supplier	34329		
Address	N/A		
Product	Color Changing Bluetooth Speaker		

Brand Name	Sharper Image

Model	1010137
Additional Model & Model Difference	1009168

Date of tests Jun. 03, 2019 ~ Jul. 15, 2019

1010137

- FCC Part 2 (Section 2.1093)
- **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
Breere	S. A. SO SOLO

Date: Aug. 02, 2019

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Table of Contents

RELE	ASE CONTROL RECORD	. 3
1.	CERTIFICATION	. 4
2.	RF EXPOSURE DEFINE	5
3.	CLASSIFICATION	5
4.	SAR TEST EXCLUSION THRESHOLDS	6

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RELEASE CONTROL RECORD

ISSUE NO.	SUE NO. REASON FOR CHANGE	
FM190702N021	Original release	Aug. 02, 2019

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1. CERTIFICATION

FCC ID:	2AEVM1010137		
PRODUCT:	Color Changing Bluetooth Speaker		
BRAND NAME:	Sharper Image		
MODEL NO.:	1010137		
ADDITIONAL NO.: 1009168			
TEST SAMPLE:	Engineering Sample		
APPLICANT: MerchSource LLC			
STANDARDS:	FCC Part 2 (Section 2.1093)		
	KDB 447498 D01		
	IEEE C95.1		

Remarks: Additional model 1009168 is identical with the test model 1010137 except the model number for marketing purpose.

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Test Report No.: FM190702N021

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**.



Test Report No.: FM190702N021

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	-2	+-2	-4	0
8DPSK	2402-2480	-2	+-2	-4	0

The measured conducted Average Power

Mode	Mode Frequency (MHz)	
GFSK	2480	-1.40
8DPSK	2480	-1.59

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 extremity SAR	Verdict
2402-2480	0	5	0.315	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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Page 6 of 6