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Test Report No.: FS170315N052

## RF EXPOSURE REPORT

Applicant	Flare Audio Ltd
Address	Unit 8 Chartwell Business Centre, 42 Chartwell Road, Lancing, West,Sussex, BN15 8FB, UK

Manufacturer or Supplier	Transound Electronics Co.,Ltd
Address	The third industrial Zone, Sijia, Shijie, Dongguan
Product	FLS-PRO-BT
Brand Name	Flare Audio
Model	FLS-PRO-BT
Additional Model & Model Difference	N/A
Date of tests	Mar. 20, 2017 ~ Apr. 07, 2017
<input checked="" type="checkbox"/> FCC Part 2 (Section 2.1091)	
<input checked="" type="checkbox"/> KDB 447498 D01	
<input checked="" type="checkbox"/> 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: Jun. 01, 2017

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## **RELEASE CONTROL RECORD**

<b>ISSUE NO.</b>	<b>REASON FOR CHANGE</b>	<b>DATE ISSUED</b>
FS170315N052	Original release	Jun. 01, 2017

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## 1. CERTIFICATION

<b>FCC ID:</b>	2ALLT-FLS-PRO-BT
<b>PRODUCT:</b>	FLS-PRO-BT
<b>BRAND NAME:</b>	Flare Audio
<b>MODEL NO.:</b>	FLS-PRO-BT
<b>ADDITIONAL NO.:</b>	N/A
<b>TEST SAMPLE:</b>	Engineering Sample
<b>APPLICANT:</b>	Flare Audio Ltd
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



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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  $\leq 50$  mm are determined by:

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

- $f(\text{GHz})$  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  $\leq 6$  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  $[1 + \log(100/f(\text{MHz}))]$  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  $\frac{1}{2}$  for test separation distances  $\leq 50$  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)
BT-LE	2402-2480	2	+2	0	4

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE	2402	2.81

### SAR Test Exclusion Thresholds

Mode	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 extreme SAR	Verdict
BT-LE	2402-2480	4	5	0.78	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.