



## RF EXPOSURE EVALUATION

Report No. : AB0044479(6) Date: 09 Sep 2022

Application No. : LB019714(0)

Applicant : TWELVE SOUTH LLC  
1503 KING ST., SUITE 201, CHARLESTON,  
SOUTH CAROLINA, US 29405

Sample Description : One(1) item of submitted sample stated to be

Product Description : Bluetooth Transmitter  
Model : AirFly  
Radio Frequency : 2402 – 2480MHz  
Supply voltage : DC3.7V (Li-ion rechargeable battery)  
DC5.0V (Charging pad)  
No. of submitted sample : 1

FCC ID : 2AREB-AIRFLY

Date Received : Aug 02, 2022

Evaluation Period : Aug 02, 2022 – Aug 14, 2022

Evaluation Method : 447498 D01 General RF Exposure Guidance v06 - RF Exposure Procedure and  
Equipment Authorization Policies for Mobile and Portable Devices

Conclusion : The source-based time-averaged maximum conducted power of Bluetooth operation  
were satisfied RF exposure requirements.

For and on behalf of  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_

Wong Lap Pong / Andrew  
Deputy Technical Manager

Page 1 of 2

Document name: FCC RF exposure - Document Ref No: RT-EL-EMC-008 - Issue Date: 01 Dec 2017 - Edition: 1

The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in [www.cmateesting.org/qac/statement-of-conformity.pdf](http://www.cmateesting.org/qac/statement-of-conformity.pdf).  
This document is issued subject to the latest CMA Testing General Terms and Conditions of Testing and Inspection Services, available on request or accessible at website [www.cmateesting.org](http://www.cmateesting.org).  
This document shall not be reproduced except in full without written approval by CMA Testing. The results apply to the sample as received unless otherwise specified. The observations and test results in this report are relevant only to the sample tested.

**CMA Industrial Development Foundation Limited**

**Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.**

**Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: [info@cmateesting.org](mailto:info@cmateesting.org) Web Site: <http://www.cmateesting.org>**



## **RF EXPOSURE EVALUATION**

Report No. : AB0044479(6)

Date: 09 Sep 2022

### **Simultaneous power**

No Simultaneous transmission

### **RF Exposure Evaluation**

According to KDB 447498 D01 clause 4.3.1 a), transmission from 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})}$$

### **Calculation**

- Frequency : 2.480GHz
  - Max. peak conducted output power , including tune-up tolerance : 1.485mW
  - Minimum test separation distances : <5mm
- 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 two decimal place for comparison.

Substitute above reading for calculation.

$$[(\text{mW}) / (\text{mm})] \times \sqrt{\text{GHz}}$$

Result = 1.17

Requirements:  $\leq 3.00$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

### **Conclusion**

The corresponding SAR test exclusion threshold was satisfied 4.3.1a) requirements. Measurement or numerical simulation is not required.

\*\*\*\*\* End of Evaluation \*\*\*\*\*