



# CMA Testing and Certification Laboratories

廠商會檢定中心

## RF EXPOSURE EVALUATION

Report No. : AY0056080(8) Date: Oct 17, 2019

Application No. : LY024939(5)

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 USB-C  
Sample registration No. : RY047200-4(6)  
Radio Frequency : 2402 – 2480MHz  
Supply voltage : DC3.7V (Li-ion rechargeable battery)  
DC5.0V (Charging pad)  
No. of submitted sample : 1

FCC ID : 2AREB-AIRFLYUSB-C

Date Received : Sep 23, 2019


Evaluation Period : Sep 24, 2019 – Oct 11, 2019

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 : \_\_\_\_\_

  
Mr. WONG Lap-pong, Andrew  
Manager

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### 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:

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

### Calculation

- Frequency : 2.480GHz
- Max. peak conducted output power , including tune-up tolerance : 0.178mW
- 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 = 0.056

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 \*\*\*\*\*