



CMA Testing and Certification Laboratories

廠商會檢定中心

RF EXPOSURE EVALUATION

Report No. : AY0046865(7) Date: Aug 22, 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 and Receiver All In One
Model : AirFly Pro
Sample registration No. : RY047200-002(4)
Radio Frequency : 2402 – 2480MHz
Supply voltage : DC3.7V (Li-ion rechargeable battery)
DC5.0V (Charging pad)
No. of submitted sample : 1

FCC ID : 2AREB-AIRFLYPRO

Date Received : Aug 1, 2019


Evaluation Period : Aug 1, 2018 – Aug 21, 2018

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 ≤ 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 : 0.10mW
- 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.

$$\left[\frac{\text{mW}}{\text{mm}} \right] \times \sqrt{\text{GHz}}$$

Result = 0.03

Requirements: ≤ 3.00 for 1-g SAR and ≤ 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 *****