



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

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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.
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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:

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

Calculation

- Frequency : 2.480GHz
 - Max. peak conducted output power , including tune-up tolerance : 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: ≤ 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 *****