



## Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: [www.cqa-cert.com](http://www.cqa-cert.com)

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# RF Exposure Evaluation Report

**Report No. :** CQASZ20190600424E-02  
**Applicant:** ZAGG Inc.  
**Address of Applicant:** 910 West Legacy Center Way, Midvale, UT, United States, 84047, USA  
**Manufacturer:** ZAGG Inc.  
**Address of Manufacturer:** 910 West Legacy Center Way, Midvale, UT, United States, 84047, USA  
**Factory:** ZAGG Inc.  
**Address of Factory:** 910 West Legacy Center Way, Midvale, UT, United States, 84047, USA  
**Equipment Under Test (EUT):**  
**Product:** Braven Flye Sport Fit  
**Model No.:** BIEFSICCP43  
**Brand Name:** BRAVEN  
**FCC ID:** QTG-BAISCLXL  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Test:** 2019-06-05 to 2019-06-21  
**Date of Issue:** 2019-06-21  
**Test Result :** **PASS\***

**Tested By:**

*Daisy Qin*

(Daisy Qin)

**Reviewed By:**

*Aaron Ma*

(Aaron Ma)

**Approved By:**

*Jack Ai*  
( Jack Ai)



\* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

## 1 Version

### Revision History Of Report

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20190600424E-02 | Rev.01  | Initial report | 2019-06-21 |

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### 3 General Information

#### 3.1 Client Information

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Applicant:               | ZAGG Inc.                                                          |
| Address of Applicant:    | 910 West Legacy Center Way, Midvale, UT, United States, 84047, USA |
| Manufacturer:            | ZAGG Inc.                                                          |
| Address of Manufacturer: | 910 West Legacy Center Way, Midvale, UT, United States, 84047, USA |
| Factory:                 | ZAGG Inc.                                                          |
| Address of Factory:      | 910 West Legacy Center Way, Midvale, UT, United States, 84047, USA |

#### 3.2 General Description of EUT

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Product Name:         | Braven Flye Sport Fit                                                                                              |
| Model No.:            | BIEFSICCP43                                                                                                        |
| Trade Mark:           | BRAVEN                                                                                                             |
| Hardware Version:     | V1.5                                                                                                               |
| Software Version:     | SMBT-V6.1-0520-20190528.bin                                                                                        |
| Operation Frequency:  | 2402MHz~2480MHz                                                                                                    |
| Bluetooth Version:    | V5.0                                                                                                               |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS)                                                                            |
| Modulation Type:      | GFSK, $\pi/4$ DQPSK, 8DPSK                                                                                         |
| Transfer Rate:        | 1Mbps/2Mbps/3Mbps                                                                                                  |
| Number of Channel:    | 79                                                                                                                 |
| Hopping Channel Type: | Adaptive Frequency Hopping systems                                                                                 |
| Product Type:         | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location |
| Test Software of EUT: | Non Signaling Test Tool (manufacturer declare )                                                                    |
| Antenna Type:         | PCB antenna                                                                                                        |
| Antenna Gain:         | 0dBi                                                                                                               |
| Power Supply:         | lithium battery:DC3.7V, Charge by DC5V                                                                             |

Note: Only one model number: BIEFSICCP43, but it comes in three colors (white, black, blue)

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 4.1.2 Limits

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:

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

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

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

#### 4.1.3 EUT RF Exposure

##### Measurement Data

| GFSK mode        |                            |                            |                       |       |
|------------------|----------------------------|----------------------------|-----------------------|-------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 3.010                      | 2.5±1                      | 3.5                   | 2.239 |
| Middle(2441MHz)  | 3.480                      | 2.5±1                      | 3.5                   | 2.239 |
| Highest(2480MHz) | 3.770                      | 3.0±1                      | 4.0                   | 2.512 |
| π/4DQPSK mode    |                            |                            |                       |       |
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 0.430                      | -0.5±1                     | 0.5                   | 1.122 |
| Middle(2441MHz)  | 0.910                      | 0±1                        | 1.0                   | 1.259 |
| Highest(2480MHz) | 1.150                      | 0.5±1                      | 1.5                   | 1.413 |
| 8DPSK mode       |                            |                            |                       |       |
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |                            |                            | (dBm)                 | (mW)  |
| Lowest(2402MHz)  | 0.800                      | 0±1                        | 1.0                   | 1.259 |
| Middle(2441MHz)  | 1.240                      | 0.5±1                      | 1.5                   | 1.413 |
| Highest(2480MHz) | 1.610                      | 1.0±1                      | 2.0                   | 1.585 |

| Worst case: GFSK                                        |                                                    |                               |                           |       |                     |                        |
|---------------------------------------------------------|----------------------------------------------------|-------------------------------|---------------------------|-------|---------------------|------------------------|
| Channel                                                 | Maximum Peak<br>Conducted<br>Output Power<br>(dBm) | Tune up<br>tolerance<br>(dBm) | Maximum tune-<br>up Power |       | Calculated<br>value | Exclusion<br>threshold |
|                                                         |                                                    |                               | (dBm)                     | (mW)  |                     |                        |
| Lowest<br>(2402MHz)                                     | 3.010                                              | 2.5±1                         | 3.5                       | 2.239 | 0.69                | 3.0                    |
| Middle<br>(2441MHz)                                     | 3.480                                              | 2.5±1                         | 3.5                       | 2.239 | 0.70                |                        |
| Highest<br>(2480MHz)                                    | 3.770                                              | 3.0±1                         | 4.0                       | 2.512 | 0.79                |                        |
| Conclusion: the calculated value ≤3.0, SAR is exempted. |                                                    |                               |                           |       |                     |                        |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190600424E-01