

# FCC RF EXPOSURE REPORT

## FCC ID: 2AXCA-K330W

**Project No.** : 2108C043  
**Equipment** : K330w Wireless Mechanical Keyboard  
**Brand Name** : DURGOD  
**Test Model** : K330w  
**Series Model** : N/A  
**Applicant** : Zhuhai Hoksi Technology CO.,LTD  
**Address** : Room803, No.3 BLDG, No.6, Pingbei 1 Rd., Nanping Technology & Industry Park, Xiangzhou St., ZhuHai, China  
**Manufacturer** : Zhuhai Hoksi Technology CO.,LTD  
**Address** : Room803, No.3 BLDG, No.6, Pingbei 1 Rd., Nanping Technology & Industry Park, Xiangzhou St., ZhuHai, China  
**Factory** : Zhuhai Hengcang Electronic Technology Co.,Ltd  
**Address** : 3rd floor, A building, No. 7 of 3rd pingxi Road, Nanping Technical industry park, Zhuhai, China  
**Date of Receipt** : Aug. 06, 2021  
**Date of Test** : Aug. 09, 2021 ~ Aug. 31, 2021  
**Issued Date** : Oct. 08, 2021  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG202108093 for LE, DG202108092 for 2.4G SRD  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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TESTING CERT #5123.02

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**REPORT ISSUED HISTORY**

| Report Version | Description        | Issued Date   |
|----------------|--------------------|---------------|
| R00            | Original Issue.    | Sep. 27, 2021 |
| R01            | Updated the limit. | Oct. 08, 2021 |

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.  
BTL's Test Firm Registration Number for FCC: 357015  
BTL's Designation Number for FCC: CN1240

## 2. GENERAL CONCLUSION

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$   
 $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  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
- The result is rounded to one decimal place for comparison

| Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz<br>and $\leq 50$ mm |    |    |     |     |     |     |     |     |     |     |                                       |
|--|----|----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------------------|
| MHz  | 5  | 10 | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | mm                                    |
| 150  | 39 | 77 | 116 | 155 | 194 | 232 | 271 | 310 | 349 | 387 | SAR Test Exclusion<br>Thresholds (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 | 164 | 192 | 219 | 246 | 274 |                                       |
| 450  | 22 | 45 | 67  | 89  | 112 | 134 | 157 | 179 | 201 | 224 |                                       |
| 835  | 16 | 33 | 49  | 66  | 82  | 98  | 115 | 131 | 148 | 164 |                                       |
| 900  | 16 | 32 | 47  | 63  | 79  | 95  | 111 | 126 | 142 | 158 |                                       |
| 1500   | 12 | 24 | 37  | 49  | 61  | 73  | 86  | 98  | 110 | 122 |                                       |
| 1900   | 11 | 22 | 33  | 44  | 54  | 65  | 76  | 87  | 98  | 109 |                                       |
| 2450   | 10 | 19 | 29  | 38  | 48  | 57  | 67  | 77  | 86  | 96  |                                       |
| 3600   | 8  | 16 | 24  | 32  | 40  | 47  | 55  | 63  | 71  | 79  |                                       |
| 5200   | 7  | 13 | 20  | 26  | 33  | 39  | 46  | 53  | 59  | 66  |                                       |
| 5400   | 6  | 13 | 19  | 26  | 32  | 39  | 45  | 52  | 58  | 65  |                                       |
| 5800   | 6  | 12 | 19  | 25  | 31  | 37  | 44  | 50  | 56  | 62  |                                       |

### 3. TABLE FOR FILED ANTENNA

| Ant. | Brand | P/N                | Antenna Type | Connector | Gain (dBi) |
|------|-------|--------------------|--------------|-----------|------------|
| 1    | PSA   | RFPCA430816IMAB301 | PCB          | IPEX      | 3.12       |

Note: The antenna gain is provided by the manufacturer.

### 4. TEST RESULTS

| Tune up tolerance (dBm) |          |
|-------------------------|----------|
| LE                      | 2.4G SRD |
| -4.00                   | -3.50    |

For LE:

| Frequency (MHz) | Max Tune-up power (dBm) | Max Tune-up power (mW) | Result | Limit |
|-----------------|-------------------------|------------------------|--------|-------|
| 2402            | -4.00                   | 0.398                  | 0.123  | 3.0   |

For 2.4G SRD:

| Frequency (MHz) | Max Tune-up power (dBm) | Max Tune-up power (mW) | Result | Limit |
|-----------------|-------------------------|------------------------|--------|-------|
| 2402            | -3.50                   | 0.447                  | 0.138  | 3.0   |

Note:

- (1) Output power including tune up tolerance.
- (2) No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**