

# TEST REPORT

**Product Name** : LOFLICK 68 Triple Mode Connection  
Mechanical Keyboard  
**Brand Mark** : LOFREE  
**Model No.** : OE902  
**FCC ID** : 2AC59-OE902  
**Report Number** : BLA-EMC-202204-A5303  
**Date of Sample Receipt** : 2022/4/19  
**Date of Test** : 2022/4/19 to 2022/4/29  
**Date of Issue** : 2022/4/29  
**Test Standard** : 47 CFR Part 1.1307, Part 2.1093, KDB  
447498  
**Test Result** : Pass

Prepared for:

**SHENZHEN LOFREE CULTURE CO.,LTD**  
F8 Building, F518 IDEA LAND, Baoyuan Road, Xixiang, Baoan District,  
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Prepared by:

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Review by:



Approved by:



Date: 2022/4/29



## REPORT REVISE RECORD

| Version No. | Date      | Description |
|-------------|-----------|-------------|
| 00          | 2022/4/29 | Original    |

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## 1 TEST SUMMARY

| Test item   | Test Requirement                            | Test Method        | Class/Severity     | Result |
|-------------|---|--------------------|--------------------|--------|
| RF Exposure | 47 CFR Part 1.1307, Part 2.1093, KDB 447498 | CFR 47 Part 2.1093 | CFR 47 Part 2.1093 | PASS   |

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## 2 GENERAL INFORMATION

|                       |   |
|-----------------------|---|
| <b>Applicant</b>      | SHENZHEN LOFREE CULTURE CO.,LTD   |
| <b>Address</b>        | F8 Building, F518 IDEA LAND, Baoyuan Road, Xixiang, Baoan District, Shenzhen, China                                       |
| <b>Manufacturer</b>   | SHENZHEN LOFREE CULTURE CO.,LTD   |
| <b>Address</b>        | F8 Building, F518 IDEA LAND, Baoyuan Road, Xixiang, Baoan District, Shenzhen, China                                       |
| <b>Factory</b>        | ZHUHAI HENGCHANG ELECTRONIC TECHNOLOGY CO., LTD.  |
| <b>Address</b>        | Floor3, Plant Building A, No.7 Pingxi Road III, Nanping Technology Industrial Park,Zhuhai City, Guangdong Province, China |
| <b>Product Name</b>   | LOFLICK 68 Triple Mode Connection Mechanical Keyboard   |
| <b>Test Model No.</b> | OE902   |

## 3 GENERAL DESCRIPTION OF E.U.T.

|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Hardware Version</b>     | OE902_V2_210927                    |
| <b>Software Version</b>     | F.Nor52832.LFSZBD021-68KH-v01.01   |
| <b>Battery power supply</b> | DC4.5V                             |
| <b>Operation Frequency:</b> | 2402MHz-2480MHz                    |
| <b>Modulation Type:</b>     | GFSK                               |
| <b>Channel Spacing:</b>     | 2MHz                               |
| <b>Number of Channels:</b>  | 40                                 |
| <b>Antenna Type:</b>        | PCB Antenna                        |
| <b>Antenna Gain:</b>        | 1.87dBi(Provided by the applicant) |

#### 4 LABORATORY LOCATION

All tests were performed at:  
BlueAsia of Technical Services(Shenzhen) Co., Ltd.  
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,  
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No tests were sub-contracted.

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## 5 RF EXPOSURE COMPLIANCE REQUIREMENT

### 5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

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.

### 5.2 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$  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<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

### 5.3 EUT RF EXPOSURE

| Operational Mode: BLE  |   |                        |                       |      |                  |                     |
|--|---|------------------------|-----------------------|------|------------------|---------------------|
| Channel  | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dB) | Maximum tune-up Power |      | Calculated value | Exclusion threshold |
|  |   |                        | (dBm)                 | (mW) |                  |                     |
| 2402 MHz   | -0.211                                    | $\pm 1$                | 0.789                 | 1.20 | 0.37             | 3.0                 |
| 2442 MHz   | -0.482                                    | $\pm 1$                | 0.518                 | 1.13 | 0.35             |                     |
| 2480 MHz   | -0.802                                    | $\pm 1$                | 0.198                 | 1.05 | 0.33             |                     |
| Conclusion: the calculated value $\leq 3.0$ , SAR is exempted. |   |                        |                       |      |                  |                     |

----END OF REPORT----

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