# TEST REPORT

| | | |
|---|---|---|
| **Product Name** | : | M1 Bluetooth Mouse |
| **Brand Mark** | : | SATECHI |
| **Model No.** | : | ST-ABTCMM |
| **Extension model** | : | ST-ABTCMS, ST-ABTCMG, ST-ABTCMP, ST-ABTCMR, ST-ABTCMB, ST-ABTCMK, ST-ABTCMV, ST-ABTCML, ST-ABTCMO, ST-ABTCMY |
| **FCC ID** | : | ZE9-ST-ABTCM1 |
| **Report Number** | : | BLA-EMC-202206-A1003 |
| **Date of Sample Receipt** | : | 2022/6/2 |
| **Date of Test** | : | 2022/6/2 to 2022/6/16 |
| **Date of Issue** | : | 2022/6/16 |
| **Test Standard** | : | 47 CFR Part 1.1307, Part 2.1093, KDB 447498 |
| **Test Result** | : | Pass |

Prepared for:

**SARIANA LLC**

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Prepared by:

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Date: 2022/6/16

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## REPORT REVISE RECORD

| Version No. | Date | Description |
|---|---|---|
| 00 | 2022/6/16 | 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 |

## 2 GENERAL INFORMATION

| | |
|---|---|
| **Applicant** | SARIANA LLC |
| **Address** | 7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA |
| **Manufacturer** | SARIANA LLC |
| **Address** | 7365 Mission Gorge Road, Suite G, San Diego , CA 92120, USA. |
| **Factory** | ShenZhen Wintop Technology Co., Ltd |
| **Address** | No. 388 Bihu Road, Fenggang Town, Dongguan city, Guangdong Province. |
| **Product Name** | M1 Bluetooth Mouse |
| **Test Model No.** | ST-ABTCMM |
| **Extension model** | ST-ABTCMS, ST-ABTCMG, ST-ABTCMP, ST-ABTCMR, ST-ABTCMB, ST-ABTCMK, ST-ABTCMV, ST-ABTCML, ST-ABTCMO, ST-ABTCMY |
| **Note** | All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose. |

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

| | |
|---|---|
| **Hardware Version** | V1.0 |
| **Software Version** | V1.0 |

| | |
|---|---|
| **Operation Frequency:** | 2402MHz-2480MHz |
| **Modulation Type:** | GFSK |
| **Channel Spacing:** | 2MHz |
| **Number of Channels:** | 40 |
| **Antenna Type:** | PCB Antenna |
| **Antenna Gain:** | 0dBi (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, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

# 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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation[17]

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 | -3.063 | ±1 | -2.063 | 0.62 | 0.19 | 3.0 |
| 2442 MHz | -3.75 | ±1 | -2.75 | 0.53 | 0.17 | |
| 2480 MHz | -4.362 | ±1 | -3.362 | 0.46 | 0.15 | |
| Conclusion: the calculated value ≤3.0, SAR is exempted. | | | | | | |

**----END OF REPORT----**