

# 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



**REPORT REVISE RECORD**

<b>Version No.</b>	<b>Date</b>	<b>Description</b>
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

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## 2 GENERAL INFORMATION

<b>Applicant</b>	SARIANA LLC
<b>Address</b>	7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA
<b>Manufacturer</b>	SARIANA LLC
<b>Address</b>	7365 Mission Gorge Road, Suite G, San Diego , CA 92120, USA.
<b>Factory</b>	ShenZhen Wintop Technology Co., Ltd
<b>Address</b>	No. 388 Bihu Road, Fenggang Town, Dongguan city, Guangdong Province.
<b>Product Name</b>	M1 Bluetooth Mouse
<b>Test Model No.</b>	ST-ABTCMM
<b>Extension model</b>	ST-ABTCMS, ST-ABTCMG, ST-ABTCMP, ST-ABTCMR, ST-ABTCMB, ST-ABTCMK, ST-ABTCMV, ST-ABTCML, ST-ABTCMO, ST-ABTCMY
<b>Note</b>	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.

<b>Hardware Version</b>	V1.0
<b>Software Version</b>	V1.0
<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>	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,  
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Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})}}{\leq 3.0}$$
 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	-3.063	$\pm 1$	-2.063	0.62	0.19	3.0
2442 MHz	-3.75	$\pm 1$	-2.75	0.53	0.17	
2480 MHz	-4.362	$\pm 1$	-3.362	0.46	0.15	
Conclusion: the calculated value $\leq 3.0$ , SAR is exempted.						

----END OF REPORT----

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