

RF EXPOSURE REPORT

Applicant	Shanghai mSlink Technology Corp., Ltd.
Address	1007-A-1205, No.968, 128th memorial road, baoshan district, Shanghai.

Manufacturer or Supplier	Shanghai mSlink Technology Corp., Ltd.				
Address	007-A-1205, No.968, 128th memorial road, baoshan district, Shanghai.				
Product	BLE Module				
Brand Name	mSlink				
Model	TSPM0424123				
Additional Model & Model Difference	N/A				
Date of tests	Mar. 15, 2019 ~ May 07, 2019				

- FCC Part 2 (Section 2.1093)
- **⊠ KDB 447498 D01**
- **⊠** IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen	Approved by Glyn He
Project Engineer / EMC Department	Supervisor / EMC Department

Date: May 20, 2019

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Table of Contents

RELE	ASE CONTROL RECORD	3
1.	CERTIFICATION	4
	RF EXPOSURE DEFINE	
	CLASSIFICATION	
	SAR TEST EXCLUSION THRESHOLDS	

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RELEASE CONTROL RECORD

ISSUE NO.	SUE NO. REASON FOR CHANGE	
FM190315N039	Original release	May 20, 2019

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Page 3 of 6

Report Version 1



1. CERTIFICATION

FCC ID:	2AS3M-TSPM0424123
PRODUCT:	BLE Module
BRAND NAME:	mSlink
MODEL NO.:	TSPM0424123
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Shanghai mSlink Technology Corp., Ltd.
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1

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2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(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

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.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
- b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
- c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as Portable Device.

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4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE	2402-2480	-1	+-1	-2	0

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE	2480	-0.37

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	0	5	0.31	3.0	7.5	Exempt from SAR

Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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