

Report No.: GZCR210802080703

Page: 1 of 9 FCC ID: 2AO94-F1

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2108020807AT

Applicant: MOKO TECHNOLOGY LIMITED

Address of Applicant: 2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua

District, Shenzhen, Guangdong Province, 518100 China

Manufacturer: MOKO TECHNOLOGY LTD.

Address of Manufacturer: 2F, Building1, No.37 XiaXinTang Xin Tang Village, Fu Cheng Street, Long

hua District

Factory: 1. Dongguan Kailai Electronic Co., Ltd

2. Yingtong (Pubei) Intelligent Electronics Co., Ltd.

Address of Factory: 1. Second Building, No. 6, Changping baisha Road, Changping Town,

Dongguan City, Guandong Province

2. Northwest of Pudong Avenue, Pubei County, Guangxi Province, China

Equipment Under Test (EUT):

EUT Name: True Wireless Stereo Earphones

Model No.: F1

Standard(s): 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2021-07-20

Date of Evaluation: 2021-08-02 to 2021-08-10

Date of Issue: 2021-08-26

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

SGS-CSTC Standards Technical Services Co., Ltd. **Guangzhou Branch**

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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021-08-26		Original	

Authorized for issue by		
Tested By	vius cui	
	Vico Cui/Project Engineer	
Reviewed By	Ridge Liu	
	Ricky Liu/Reviewer	



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2 Evaluation Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 **General Information**

4.1 Details of E.U.T.

Power supply: DC 5V, 0.5A from AC adapter

Lithium Ion Battery: DC 3.7V rechargeable battery which charged by Type-C

port for charging case

Lithium Ion Battery: DC 3.7V rechargeable battery which charged by

charging case for left earbud and right earbud

Cable(s): Type-C cable 32.5cm unshielded no-core

For BT

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 Dual mode

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS) Technology:

GFSK, pi/4DQPSK, 8DPSK Modulation Type:

Number of Channels: 79 Channel Spacing: 1MHz

Antenna Type: Chip Antenna

Antenna Gain: 0.9dBi

For BLE

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 Dual mode

GFSK Modulation Type: Date Rate: 1Mb/s Number of Channels: 40 Channel Spacing: 2MHz

Antenna Type: Chip Antenna

Antenna Gain: 0.9dBi Hardware version: Y113 V1.1

F1_LV1.88_8773BFR_VF_1826C9_20210706/F1_RV1.88_8773BFR_VF_1 Software version:

826C9_20210706

F1 LV1.88 8773BFR VF 1826C9 20210706/F1 RV1.88 8773BFR VF 1 Firmware version:

826C9 20210706

EPA215-8773BFR-VF Serial number:

Test software and

version:

BTOnlyEfuseTool

Software Power

All modulation, Low/ Middle/ High channel set to 0x3a for the RF test. Setting:



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4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.4 Deviation from Standards

4.5 Abnormalities from Standard Conditions

None



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(1)

5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

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 [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 calculation¹⁷
- 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

5.1.2 Conclusion

For BT / BLE:

The Max. power (including tune-up tolerance 1.02 dBm on the lowest channe 2.441 GHz (*) 1.02 dBm logarithmic terms convert to numeric result is nearly 1.26 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [vf(GHz)]

General RF Exposure = (1.26 mW / 5 mm) $\times \sqrt{2.441}$ GHz = 0.39

SAR requirement:

 $S = 3.0 \tag{2}$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210802080701



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6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2108020807AT.

- End of the Report -



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