

RF Exposure Evaluation Report

Report Reference No......: **MTEB24060223-H**

FCC ID.....: **2A3AI-SING**

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Representative Laboratory Name .: **Shenzhen Most Technology Service Co., Ltd.**

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Applicant's name.....: **New Wanaka Limited**

Address: FLAT/RM 803 8/F, EASEY COMMERCIAL BUILDING 253-261
HENNESSY ROAD, WAN CHAI HONG KONG.

Test specification/ Standard: **47 CFR Part 1.1307**

47 CFR Part 2.1093

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description: Smart Keyboard Piano

Trade Mark: The ONE

Model/Type reference.....: Sing

Listed Models: N/A

Modulation Type: GFSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: V01

Software Version: V1.0.0

Rating: DC 5V (by Adapter)

DC 6V (by Batteries)

Result.....: PASS

TEST REPORT

Equipment under Test : Smart Keyboard Piano

Model /Type : Sing

Listed Models : N/A

Remark : N/A

Applicant : New Wanaka Limited

Address : FLAT/RM 803 8/F, EASEY COMMERCIAL BUILDING 253-261
HENNESSY ROAD, WAN CHAI HONG KONG.

Manufacturer : New Wanaka Limited

Address : FLAT/RM 803 8/F, EASEY COMMERCIAL BUILDING 253-261
HENNESSY ROAD, WAN CHAI HONG KONG.

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.06.18	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

2.1.2 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:

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

 ≤ 3.0 for 1-g SAR and ≤ 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 calculation¹⁷

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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.402	2.402 ± 1	3.402
Middle(2440MHz)	2.032	2.032 ± 1	3.032
Highest(2480MHz)	2.649	2.649 ± 1	3.649

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	2.649	3.649	2.32	0.73	3.0	Yes

.....THE END OF REPORT.....