

RF Exposure Evaluation Report

Report Reference No...... : **MTEB24080368-H**

FCC ID..... : **2A2GELY2409-1**

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Date of issue.....: Aug. 27,2024

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

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Applicant's name.....: **XIAMEN LIYIN TECHNOLOGY CO.,LTD**

Address.....: 5F,NO.68,South Sunban Road Jimei,xiamen,Fujian,china

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.....: MINI A4 PRINTER

Trade Mark.....: N/A

Model/Type reference.....: MP850

Listed Models: MP850S、MP860、MP860S、P8、P8S、M1、M2、M3、Q1、
Q2、Q3、A4、A4HD

Modulation Type.....: GFSK

GFSK, $\pi/4$ DQPSK, 8DPSK

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

Hardware Version.....: MP850 V3.0

Software Version.....: MP850-RM

Rating.....: DC 7.2V by Battery

DC 5V by USB Port

Result.....: PASS

TEST REPORT

Equipment under Test : MINI A4 PRINTER

Model /Type : MP850

Listed Models : MP850S、MP860、MP860S、P8、P8S、M1、M2、M3、Q1、Q2、Q3、A4、A4HD

Remark : Only the model MP850 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, Just the model name and the appearance color is different.

Applicant : XIAMEN LIYIN TECHNOLOGY CO.,LTD

Address : 5F,NO.68,South Sunban Road Jimei,xiamen,Fujian,china

Manufacturer : XIAMEN LIYIN TECHNOLOGY CO.,LTD

Address : 5F,NO.68,South Sunban Road Jimei,xiamen,Fujian,china

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	2024.08.27	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)	1.452	1.452 ± 1	2.452
Middle(2440MHz)	1.808	1.808 ± 1	2.808
Highest(2480MHz)	2.914	2.914 ± 1	3.914

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)	2.914	3.914	2.46	0.77	3.0	Yes

EDR

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.586	-0.586 ± 1	0.414
Middle(2441MHz)	-0.462	-0.462 ± 1	0.538
Highest(2480MHz)	-1.006	-1.006 ± 1	-0.006

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.356	0.356 ± 1	1.356
Middle(2441MHz)	0.475	0.475 ± 1	1.475
Highest(2480MHz)	-0.060	-0.060 ± 1	0.94

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.774	0.774 ± 1	1.774
Middle(2441MHz)	0.866	0.866 ± 1	1.866
Highest(2480MHz)	0.322	0.322 ± 1	1.322

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2441MHz)	0.866	1.866	1.54	0.48	3.0	Yes

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