



RF Exposure Evaluation

FCC ID:2ASRB-DM170

Applicant: Zhuhai Quin Technology Co., Ltd.
Address: 1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY
Manufacturer: Zhuhai Quin Technology Co., Ltd.
Address: 1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY
EUT: Portable Label Maker
Trade Mark: N/A
Model Number: DM170, D1700, DM160, DM170 PRO, D1700PRO, D1600PRO
Date of Receipt: Sep. 25, 2025
Test Date: Sep. 25, 2025 to Oct. 21, 2025
Date of Report: Oct. 21, 2025
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Applicable Standards: 47CFR§1.1310, 47CFR§2.1093
KDB 447498 D01 General RF Exposure Guidance v06
Test Result: Pass
Report Number: DLE-251010057R-3

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



Table of Contents

1. Product Information	3
2. Test laboratory information	4
3. MEASUREMENT UNCERTAINTY	4
4. METHOD OF MEASUREMENT	5
4.1 APPLICABLE STANDARD	5
5. EVALUATION RESULTS	6



1. Product Information

Product Name:	Portable Label Maker
Trademark	N/A
Model No.:	DM170,D1700,DM160,DM170 PRO,D1700PRO,D1600PRO
Test Model:	DM170
Model Difference	PCB board, circuit, structure and internal of these model(s) are the same, Only model number is different for these model.
BT Version:	5.4
Operation Frequency:	2402~2480MHz
Channel numbers:	79 Channels for EDR 40 Channels for BLE
Channel separation:	1M For EDR 2M For BLE
Modulation technology:	GFSK , $\pi/4$ DQPSK, 8DPSK
Antenna Type:	PCB antenna
Antenna gain:	-0.58dBi
Power supply:	DC 5V by adapter or DC 3.7V from battery
Test sample(s) ID:	DLE-251010057R

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.



2. Test laboratory information

Test Lab: Shenzhen DL Testing Technology Co., Ltd.
101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong
Address: Industrial Zone, Baolong Street, Longgang District, Shenzhen,
Guangdong, China
FCC Test Firm Registration Number: 854456
Designation Number: CN1307
IC Registered No.: 27485
CAB ID.: CN0118

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$
8	Bandwidth	$\pm 0.2\text{MHz}$
9	Time	$\pm 2\%$



4. METHOD OF MEASUREMENT

4.1 APPLICABLE STANDARD

According to KDB 447498 D01 V06 and part 2.1093, 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 Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR, and ≤ 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

The result is rounded to one decimal place for comparison

$$\text{EIRP} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 104.7$$

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m

d_{Meas} is the measurement distance, in m



5. EVALUATION RESULTS

Tune-up Power

EDR					
Mode	Frequency	Output power to antenna (dBm)	Output power to antenna (mW)	Max Tune-up Power(dBm) ± 1	Max Tune-up Power(dBm)
GFSK	2480	0.91	1.23	0	1
Pi/4DQPSK	2480	1.71	1.48	1	2
8DPSK	2480	1.88	1.54	1	2
BLE					
1M	2480	1.38	1.37	1	2
2M	2480	1.29	1.35	1	2

Mode	Frequency (MHz)	Max Output power to antenna (dBm)	Max Output power to antenna (mW)	Min. distance(mm)	Calc. thresholds	Limit (mW/cm ²)	Result
GFSK	2480	1	1.259	5	0.397	3.0	PASS
Pi/4DQPSK	2480	2	1.585	5	0.499	3.0	PASS
8DPSK	2480	2	1.585	5	0.499	3.0	PASS
1M	2480	2	1.585	5	0.499	3.0	PASS
2M	2480	2	1.585	5	0.499	3.0	PASS

Remark: antenna gain=-0.58dBi

So a SAR test is not required

****END OF REPORT****