RF EXPOSURE
Test Report

Report No.	:	MTi260206010-0102E3
Date of issue	:	2026-03-16
Applicant	:	Zhuhai Quin Technology Co., Ltd.
Product	:	Label Printer
Model(s)	:	D422S*
Series model	:	Please refer to the Series model remark
FCC ID	:	2ASRB-D422S

Shenzhen Microtest Co., Ltd.

Series model Remark:

D423BT, D425BT, D426BT, D427BT, D428BT, D429BT, D423D, D425D, D426D, D427D, D428D, D429D, D420Air, D423Air, D425Air, D426Air, D427Air, D428Air, D429Air, A641M, A64M, A642M, A643M, A645M, A646M, A647M, A649M, A64MD, A641MD, A642MD, A643MD, A645MD, A646MD, A647MD, A649MD, A64Plus, A641Plus, A642Plus, A643Plus, A645Plus, A646Plus, A647Plus, A648Plus, A649Plus, A64Pro, A641Pro, A642Pro, A643Pro, A645Pro, A646Pro, A647Pro, A648Pro, A649Pro, D422S, D6, D6 Pro, D423 Pro, D425 Pro, D426 Pro, D427 Pro, D428 Pro, D429 Pro, D423H, D425H, D426H, D427H, D428H, D429H, D423H Pro, D425H Pro, D426H Pro, D427H Pro, D428H Pro, D429H Pro, D423D Pro, D425D Pro, D426D Pro, D427D Pro, D428D Pro, D429D Pro, D421R, D423R, D425R, D426R, D427R, D428R, D429R, D425S, D426S, D427S, D428S, D429S, D422S Pro, D422D, D422BT, D422Air, D422H, D422WF, D421WF, D423WF, D425WF, D426WF, D427WF, D428WF, D429WF, D422 Pro, D630 Twin Turbo, D630

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TEST REPORT

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Test Result Certification		
Applicant	Zhuhai Quin Technology Co., Ltd.	
Applicant Address	1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY	
Manufacturer	Zhuhai Quin Technology Co., Ltd.	
Manufacturer Address	1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY	
Product description		
Product name	Label Printer	
Trademark	N/A	
Model name	D422S	
Series Model(s)	Please refer to the Series model remark	
Standards	47 CFR Part 2.1091	
Test method	KDB 447498 D01 v06	
Testing Information		
Date of test	2026-03-09 to 2026-03-13	
Test Result	Pass	
Prepared by:	Letter Lan	Letter. Lan.
Reviewed by:	David Lee	David. Lee
Approved by:	Lewis Lian	Lewis Lian

1 RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f^2	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f^2	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: Pd= (Pout*G)\ (4*pi*R^2)

Where

Pd= Power density in mW/cm^2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

Pd the limit of MPE, 1mW/cm^2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

2 Measurement Result

BT&BLE:
Operation Frequency: 2402-2480MHz,
Power density limited: 1mW/ cm2

Antenna Type: PCB Antenna

Antenna gain: -0.58dBi
R=20cm
mW=10^(dBm/10)
Antenna gain Numeric=10^(dBi/10)= 10^(-0.58/10)=0.87

BT:

Channel Freq. (MHz)	modulation	conducted power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna Gain Numeric	Evaluation result (mW/cm^2)	Power density Limits (mW/cm^2)
2402	GFSK	-0.61	0±1	1	1.259	-0.58	0.87	0.0002	1
2441		-0.39	0±1	1	1.259	-0.58	0.87	0.0002	1
2480		0.58	1±1	2	1.585	-0.58	0.87	0.0003	1
2402	π/4-DQPSK	0.20	0±1	1	1.259	-0.58	0.87	0.0002	1
2441		0.36	0±1	1	1.259	-0.58	0.87	0.0002	1
2480		1.37	1±1	2	1.585	-0.58	0.87	0.0003	1

BLE:

Channel Freq. (MHz)	modulation	conducted power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna Gain Numeric	Evaluation result (mW/cm^2)	Power density Limits (mW/cm^2)
2402	GFSK-1M	-0.61	0±1	1	1.259	-0.58	0.87	0.0002	1
2440		-0.01	0±1	1	1.259	-0.58	0.87	0.0002	1
2480		0.42	1±1	2	1.585	-0.58	0.87	0.0003	1
2402	GFSK-2M	-0.52	0±1	1	1.259	-0.58	0.87	0.0002	1
2440		0.06	0±1	1	1.259	-0.58	0.87	0.0002	1
2480		0.69	1±1	2	1.585	-0.58	0.87	0.0003	1

Conclusion:

Simultaneous:

For the max result: 0.003≤ 1.0 test exclusion threshold, No SAR is required.

Statement

1. This report is invalid without the seal and signature of the laboratory.

2. The test results of this report are only responsible for the samples submitted.Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
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5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

****** END OF REPORT ******