



RF EXPOSURE REPORT

Report No.: 20231017G14173X-W11

Product Name: Mobile Data terminal

Main Model No.: DT50

Serial Model No.: DT50A, DT50B, DT50C, DT50D, DT50E/DT50F, DT50G, DT50H, DT50K, DT50M, DT50MT, DT50P, DT50Q, DT50R, DT50S, DT50T, DT50U, DT50W, DT50Z, DT50X, DT5X(X: 1~9), HS600, HB660, DT50 Pro

FCC ID: SWSDT50S

Applicant: UROVO TECHNOLOGY CO., LTD.

Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road, Nanshan District, Shenzhen, Guangdong, China

Dates of Testing: 10/25/2023 - 11/28/2023

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 **Fax:** 86 755 26627238

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Test Report

Product.....: Mobile Data terminal
Brand Name.....: UROVO
Trade Name: UROVO
Applicant.....: UROVO TECHNOLOGY CO., LTD.
Applicant Address.....: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road,
Nanshan District, Shenzhen, Guangdong, China
Manufacturer.....: UROVO TECHNOLOGY CO., LTD.
Manufacturer Address.....: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road,
Nanshan District, Shenzhen, Guangdong, China
Test Standards.....: 47 CFR Part 2.1093
Test Result.....: Pass

Tested by: Chuiwang Zhang 2023.11.29
Chuiwang Zhang, Test Engineer

Reviewed by.....: Chris You 2023.11.29
Chris You, Senior Engineer

Approved by.....: Yang Fan 2023.11.29
Yang Fan, Manager



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Change History		
Issue	Date	Reason for change
1.0	2023.11.29	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Mobile Data terminal
Device Type	Portable Device
EUT supports Radios application	NFC
Frequency Range	13.553~13.567MHz
Modulation Type	ASK
Antenna gain	0 dBi
Antenna Type	Internal Antenna

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: DT50A, DT50B, DT50C, DT50D, DT50E/DT50F, DT50G, DT50H, DT50K, DT50M, DT50MT, DT50P, DT50Q, DT50R, DT50S, DT50T, DT50U, DT50W, DT50Z, DT50X, DT5X(X: 1~9), HS600, HB660, DT50 Pro compared with DT50, only have different model name. All of the model's circuit theory, electrical design and Critical Components are the same.



1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title
1	47 CFR Part 1	Practice and Procedure
2	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

1.3. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered 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: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01

1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China



2. Technical Requirements Specification in CFR Title 47 Part 2.1093

2.1. Evaluation method

According to KDB 447498 D01 General RF Exposure Guidance v06, clause 4.3. General SAR test exclusion guidance:

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

2.2. Evaluation Results

Frequency (MHz)	Field strength (dB μ V/m@3m)	Radiated Power (EIRP)(mW)	Conducted power (mW)	Exclusion Threshold Level(mW)
13.56	-3.49	0	0	443

Notes:

Conducted power = Radiated Power (EIRP) - Antenna Gain.

$EIRP[\text{dBm}] = E[\text{dB}\mu\text{V/m}] - 95.2 = -3.49\text{dB}\mu\text{V/m} - 95.2 = -98.69\text{dBm} \approx 0\text{mW}$.

Exclusion Threshold Level = $[474] * (1 + \log(100/f_{\text{(MHz)}})) / 2 = 433\text{mW}$.

2.3. Conclusion

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

**** END OF REPORT ****