

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTWG22103590-H**

**FCC ID**.....: **2A397-HK528**

Compiled by

( position+printed name+signature)...: File administrators Alisa Luo



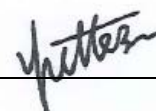
Supervised by

( position+printed name+signature)...: Test Engineer Sunny Deng



Approved by

( position+printed name+signature)...: Manager Yvette Zhou



Date of issue.....: **November 02, 2022**

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

Address .....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**.....: **QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.**

Address .....: Wisdom Valley, No.8 Shengshui Road, Laoshan District, Qingdao  
City, China

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

**47 CFR Part 1.1310**

**KDB447498D01 General RF Exposure Guidance v06**

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

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**Test item description** .....: POS COMPUTER

Trade Mark .....: Histone

Manufacturer .....: **QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.**

Model/Type reference.....: HK528

Listed Models .....: HK528 J6412

Modulation Type .....: ASK

Operation Frequency.....: 13.56MHz

Hardware Version.....: HS-J6412LS

Software Version .....: MEHL0301

Rating .....: DC 24V by Adapter: Input: 100-240V~, 50/60Hz, 2.5A

Output: 24.0V=, 3.75A

POS COMPUTER : 24V=, 3.75 A

Result.....: **PASS**

## TEST REPORT

Equipment under Test : POS COMPUTER

Model /Type : HK528

Listed Models : HK528 J6412  
All models are identical to each other, except model name.

Remark : The product appearance has different colors.

Applicant : **QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.**

Address : Wisdom Valley, No.8 Shengshui Road, Laoshan District, Qingdao City, China

Manufacturer : **QINGDAO HISTONE INTELLIGENT COMMERCIAL SYSTEM CO., LTD.**

Address : Wisdom Valley, No.8 Shengshui Road, Laoshan District, Qingdao City, China

<b>Test Result:</b>	<b>PASS</b>
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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	2022-11-02	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**

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C): 33

- 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  $\leq 50$  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.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.<sup>34</sup>

### 2.1.3 EUT RF Exposure

The worst case (refer to report MTWG22103590) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
13.56	78.2	Peak

$$E = \text{EIRP} - 20 \log d + 104.8$$

E: is the electric field strength in dBuV/m

EIRP: is the equivalent isotropically radiated power in dBm

d: is the specified measurement distance in m

d=3m

$$\text{EIRP} = 78.2 + 20 \log 3 - 104.8 = -78.2 - 95.2 \text{ dBm} = -17 \text{ dBm}$$

13.56 MHz < 30 MHz, Add a 6 dB maximum ground factor.

$$\text{EIRP} = -17 \text{ dBm} + 6 = -11 \text{ dBm}$$

The EIPR of the product is small enough, RF Exposure meets the requirements.

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