Test Report No.: FM2011WDG0197-1

RF EXPOSURE REPORT

Applicant	ForThink Technology co., ltd.
Address	898# Baicao Road, West High-Tech Zone, Chengdu, sichuan China

Manufacturer or Supplier	ForThink Technology co., ltd.
Address	898# Baicao Road, West High-Tech Zone, Chengdu, sichuan China
Product	Social Distancing ID Card
Brand Name	EHIGH
Model	EH100606A01-J
Additional Model & Model Difference	EH100602A01-J
Date of tests	Nov. 18, 2020 ~ Jan. 19, 2021

☒ **FCC Part 2 (Section 2.1093)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Jan. 25, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2011WDG0197	Original release	Jan. 25, 2021
FM2011WDG0197-1	Based on the original report FM2011WDG0197, Remove the limit for 10-g extremity SAR in items 4.	Feb. 22, 2021

1. CERTIFICATION

FCC ID:	2AWQO-EH100606A01-J
PRODUCT:	Social Distancing ID Card
BRAND NAME:	EHIGH
MODEL NO.:	EH100606A01-J
ADDITIONAL NO.:	EH100602A01-J
APPLICANT:	ForThink Technology co., ltd.
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1

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1. Additional model EH100602A01-J is identical with test model EH100606A01-J except the model number, appearance and trade name for marketing purpose.

2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(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

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) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
   a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
   b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
   a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
   b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
   c) 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 test results to be acceptable.

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device.**

4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
UWB	3993.6	-28	+-1	-29	-27
ZIGBEE	2405-2480	2	+-1	1	3

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
UWB	3993.6	-28.48
ZIGBEE	2405.0	2.35

SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Verdict
3993.6	-27	5	0.0008	3.0	Exempt from SAR
2405.0	3	5	0.6189	3.0	Exempt from SAR

The calculation formula is as follows :

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0

UWB: [0.001995262mW/5mm]*[√3.9936GHz]=0.0008≤ 3.0
ZIGBEE: [1.995262315mW/5mm]*[√2.405GHz]=0.6189≤ 3.0

Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.