

RF Exposure Report

Report No.: MFBCUG-WTW-P22010682D

FCC ID: B32UX7002W

Test Model: UX700-ML-2

Received Date: 2022/12/16

Date of Evaluation: 2023/4/6

Issued Date: 2023/4/18

Applicant: Verifone, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
MFBCUG-WTW-P22010682D	Original Release	2023/4/18

1 Certificate of Conformity

Product: Point of Sale Terminal

Brand: Verifone

Test Model: UX700-ML-2

Sample Status: Engineering sample

Applicant: Verifone, Inc.

Date of Evaluation: 2023/4/6

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :

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Date:

2023/4/18

Gina Liu / Specialist

Approved by :

Jeremy Lin

Date:

2023/4/18

Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
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
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

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

2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	2412-2462	15.86	2.60	20	0.014	1.00
	5180-5240	15.15	3.60	20	0.015	1.00
	5260-5320	16.00	3.60	20	0.018	1.00
	5500-5720	15.40	3.60	20	0.016	1.00
	5745-5825	13.32	3.60	20	0.010	1.00
BT EDR	2402-2480	9.45	2.60	20	0.003	1.00
BT LE	2402-2480	2.01	2.60	20	0.001	1.00

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

Conclusion:

Both of the WLAN and BT can transmit simultaneously, the formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + BT = $0.014 + 0.003 = 0.017$

WLAN 5GHz + BT = $0.018 + 0.003 = 0.021$

Therefore the maximum calculations of above situations are less than the “1” limit.

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