

## RF Exposure Report

**Report No.:** SABBNT-WTW-P21040202A

**FCC ID:** SLE-UC8112A

**Test Model:** UC-8112A-ME-T-LX

**Received Date:** Apr. 09, 2021

**Test Date:** Apr. 22 ~ May 06, 2021 and Aug. 20, 2021

**Issued Date:** Apr. 20, 2022

**Applicant:** Moxa Inc.

**Address:** No. 1111, Heping Rd., Bade Dist., Taoyuan City 334004, Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

**FCC Registration /** 788550 / TW0003  
**Designation Number:**



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

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### Release Control Record

Issue No.	Description	Date Issued
SABBNT-WTW-P21040202A	Original release	Apr. 20, 2022

## 1 Certificate of Conformity

**Product:** Arm-based platform

**Brand:** MOXA

**Test Model:** UC-8112A-ME-T-LX

**Sample Status:** Engineering sample

**Applicant:** Moxa Inc.

**Test Date:** Apr. 22 ~ May 06, 2021 and Aug. 20, 2021

**Standards:** FCC Part 2 (Section 2.1091)

**References Test KDB 447498 D01 General RF Exposure Guidance v06  
Guidance:**

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 :** Celine Chou, **Date:** Apr. 20, 2022  
Celine Chou / Senior Specialist

**Approved by :** Jeremy Lin, **Date:** Apr. 20, 2022  
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 <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 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**.

### 3 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WCDMA II	1850-1910	22.73	2.00	20	0.059	1.00
WCDMA V	824-849	22.03	1.00	20	0.040	0.55
LTE 2	1850-1910	22.73	2.00	20	0.059	1.00
LTE 4	1710-1755	23.18	2.00	20	0.066	1.00
LTE 5	824-849	22.15	1.00	20	0.041	0.55
LTE 13	777-787	22.08	1.00	20	0.040	0.52
LTE 17	704-716	22.38	1.00	20	0.043	0.47

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
3. Only the power for LTE 17 is new. The power for other band were quotes to SGS report no.: T190304W05-RP.

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