

# **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:**



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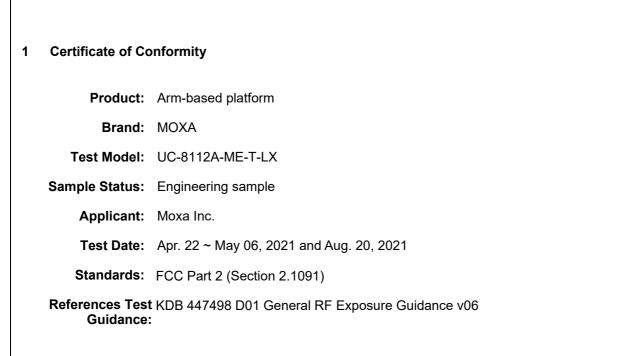
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## **Release Control Record**

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



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	Ch-u	, Date:	Apr. 20, 2022	
	Celine Chou / Ser	nior Specialist			

Approved by :

Jerem, 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/cm²)	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

 $\begin{array}{l} \mathsf{Pd} = (\mathsf{Pout}^*\mathsf{G}) \: / \: (4^*\mathsf{pi}^*\mathsf{r}^2) \\ \mathsf{where} \\ \mathsf{Pd} = \mathsf{power} \: \mathsf{density} \: \mathsf{in} \: \mathsf{mW}/\mathsf{cm}^2 \\ \mathsf{Pout} = \mathsf{output} \: \mathsf{power} \: \mathsf{to} \: \mathsf{antenna} \: \mathsf{in} \: \mathsf{mW} \\ \mathsf{G} = \mathsf{gain} \: \mathsf{of} \: \mathsf{antenna} \: \mathsf{in} \: \mathsf{linear} \: \mathsf{scale} \\ \mathsf{pi} = 3.1416 \\ \mathsf{r} \: \mathsf{e} \: \mathsf{distance} \: \mathsf{between} \: \mathsf{observation} \: \mathsf{point} \: \mathsf{and} \: \mathsf{center} \: \mathsf{of} \: \mathsf{the} \: \mathsf{radiator} \: \mathsf{in} \: \mathsf{cm} \end{array}$ 

#### 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**.



Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm²)
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

## 3 Calculation Result of Maximum Conducted Power

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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